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## Avion 1986-03-26

Embry-Riddle Aeronautical University

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**Nuclear Winter Threat**  
Mother Nature is taking comments... by Young Democrats page 00

**Print Shop Raises Tuition**  
Angry opponents... by Young Democrats page 24

**Cash Talks**  
Cohen waits... sets price on new goal page 30C

**Spotlight and the single male**  
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**Sports**  
Spring Breakers assist Physics Dept with gravity check page 32.2

**Orbital Insertion**  
Debats conflict on direct ascent vs. staging page 0



The Editor is the President

Embry-Riddle Anachronistic Institute, Daytona Beach, California

60 YEARS OF AVIATION EXCES S  
MAY 1974

March 32, MCMLXXXIV

Volume 3 cc. Issue 52



## Balcony divers break new ground

Spring Olympians set low marks,  
Eastern-bloc schools boycott meet

By Scoop Putzman

The annual Florida Spring Break Olympics have begun and the site for the Balcony Diving events this year will be Daytona Beach.

Students from all over the country will be here and several will compete for the event. Most of the competitors will do so quite unexpectedly, but some students will actually train for the event. Bill "Stud" Hanson, a student from a large midwestern university who never expected anything like this to ever happen to him (but that's another story), said, "Like hey, its really bitchin'!" He said (through an interpreter) that he intends to get totally wasted on Canadian beer before attempting his dive. He noted the reason for Canadian beer being that German beer is too heavy and would make him fall too fast, and domestic beer is too cheap and would decrease the

quality of his dive in the judge's eyes.

Most of the students who were serious competitors preferred to register at high-rise hotels where they have the most opportunity to do complicated maneuvers before smucking on the pavement below. However, there was a group of students from Warsaw Polytechnic who registered at a one story motel. They have been quite disappointed with their scores so far, but all of their team members will return next year to compete again.

Unfortunately, the local hotel owners and law enforcement agencies have taken a very dim view of the competition. They do not realize that getting commode-hugging drunk and diving off of balconies is the constitutional right of every college student. According to one spring break party animal, "I mean, the next thing you know, they'll want us to go inside off the balcony before we take a leak."



Members of the 'Large Midwestern University' balcony-diving squad tank up prior to their winning splash. Members shaved off their chest hair to lower their wind resistance and as a show of team spirit. Towels were designated areas prior to a



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### Local boy makes good...

Humanities prof Piggly Wiggy won last weekend's Daytona 1250.325 mile race for unmodified VW bugs'

## Annual gravitation check scheduled for today

By Phil Phall  
Special to the Avioff

Once again, it is time for the Physics Department's annual gravitation check. We would like you to know that we will be shutting off gravity for approximately one hour on April 1. Even though it is inconvenient, it could not be done over Easter weekend because of Union agreements.

This investigation must be handled with utmost care and precision since last year's check was done a month early to coincide with the removal of the steel jacks from the supporting columns between buildings A and W.

This year it is necessary to shut off gravity to alleviate an environmental problem. After having 120,000 fans attend the Daytona 500, countless motor-

excessive hot air produced by instructors and administrators.

As usual, this will also present many other problems. Up until now, it was a highly guarded secret that Riddle lost a Chevelle 172 during the gravity check last year. Even more upsetting to the male population of ERAU was that when the 172 disappeared, so

See CHECK, page 2

### By Mr. Bill Avioff Staff Reporter

Chancellor of Vice Les Wheatbig, the friend of the students, announced on Monday that the students of Embry-Riddle will be granted a Spring Break.

This year the Spring Break will fall during it week of April 7 through April 11.

For years, ERAU students have complained about this flimsy in the Academic Calendar. "Not only have our students in the past been robbed of a well deserved break, but they have jeopardized their grades by playing hooky to see thousands of college students who journey to Daytona Beach for sun and fun," said Wheatbig. "This year," says Wheatbig, "we will have a Spring Break and in future years this will be made a part of the Academic Calendar

every spring trimester."

"However," continues Wheatbig, "we still must finish our classes this term on schedule since graduation must occur on April 26. Our commencement speaker is Bob Hope who will address the audience on *The Road to Embry Riddle*."

**"Students in the past have been robbed of a well-deserved break... this year we will have a Spring Break"**  
— Chancellor Wheatbig

Due to accreditation requirements, the same number of classes must be held as prescribed by the original class schedule. Therefore, the following schedule will be adhered to for the rest of this trimester.

Makeup Day 1 Sat., April 5 (replaces Mon. classes)

Makeup Day 2 Sun., April 6 (replaces Tue. classes)  
Spring Break Mon., April 7 through Fri., April 11  
Makeup Day 3 Sat., April 12 (replaces Wed. classes)  
Makeup Day 4 Sun., April 13 (replaces Thur. classes)  
Class as scheduled Mon., April

14 through Fri., April 19  
Makeup Day 5 Sat., April 15 (replaces Fri. classes)  
Final Exams Sun., April 20 through Thursday April 24  
Commencement Sat., April 26 at the Civic Center  
Dr. Wheatbig, the friend of the students, would like to announce

two further developments concerning this schedule.

First, advanced registration will proceed as originally scheduled. In particular, those who have an appointment on the first day of Spring Break, April 7, must keep it.

Second, all employees of the University must report for work as usual during this break.

Dr. Wheatbig wants a full report at the end of the week from every committee on campus on every item which is being considered. Also, the time may be used by employees for mandatory spring cleaning.

See BREAK, page 1

## Libya tangles with ROTC forces Khadafy's amphibious fleet crosses 'Line of Death'

By Wall Bobbers  
Avioff Intelligence Officer

Daytona Beach, marks the boundary of the "line of death," an imaginary line thought to be the

out his top troops on the high seas to fight the US ROTC forces stationed at Embry-Riddle



LIBYIAN  
ATTACK  
ROUTE

# ERAU Spring Break gets admin go ahead

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A month ago, the Purchasing Department ordered two pairs of white gloves, one for El Presidente Allman and one for Chancellor of Vice Wheatbig, to

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This year it is necessary to shut off gravity to alleviate an environmental problem. After having 120,000 fans attend the Daytona 500, countless motorcycle fans and assorted Spring Break tourists, it is necessary to allow the pollution to rise and disperse in the atmosphere. The problem is critical around Embry-Riddle, compounded by

excessive hot air produced by instructors and administrators.

As usual, this will also present many other problems. Up until now, it was a highly guarded secret that Riddle lost a Cheesna 172 during the gravity check last year. Even more upsetting to the male population of ERAU was that when the 172 disappeared, so

See CHECK, page 2

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By Walt Bobbers Avioff Intelligence Officer

Yesterday Libyan forces engaged in a brutal attack against American ROTC forces near the Eastern Seaboard hamlet of Ponce Inlet.

Ponce Inlet, near the city of

Daytona Beach, marks the boundary of the 'line of death', an imaginary line thought to be the property line of Volusia County. Libya has said that if the US ever makes a 'line of death', they will cross it. Last year, the US marked the line of death on the New Rand McNally Road Atlas and Libya launched their attack.

Libyan leader Khadaffy sent

out his top troops on the high seas to fight the US ROTC forces stationed at Embry-Riddle Astronomical University in near-by Daytona Beach. The ROTC forces had been taking correspondence courses in combat training for the last month and were well-prepared for the battle.

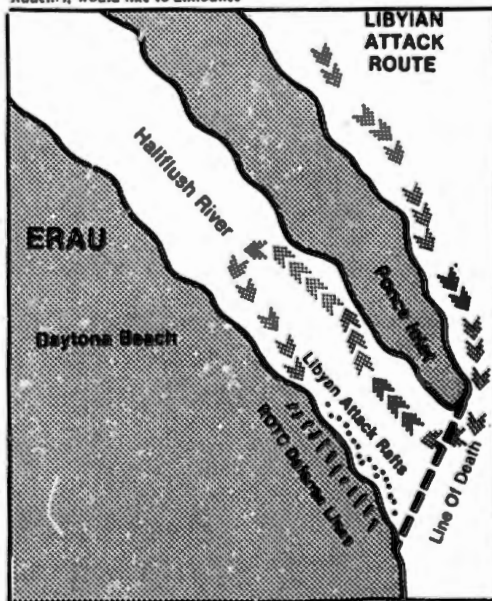
ROTC Commander 'Flake' Bulletrain said, "We were as ready as we ever could be, I guess." Bulletrain, an underwater basketweaving major, credited his success to his mommy, daddy and his dog Fred, who now can lead a normal social life.

Khadaffy's ships, which included both ten and twelve foot rafts, were repelled by the highly trained ROTC combat specialists.

Armed only with tacks and guts, they attacked the Libyan ships with a force that can only be imagined. The very thought of death never crossed their minds, and, within minutes, the attack was over.



Libyann shock troops stormed ashore yesterday. When they noticed they forgot their weapons, they went home



The Lib yan attack plan is depicted above. Military strategists are at a quandy to explain the circuitous route.

# BREAK

(continued from page 1)

be used for the inspection of all Daytona Beach and Bunnell facilities on April 11. After all, says Chancellor Potent, the Technical director of Spring Break Cleaning, "cleanliness is next to godliness."

Dr. Wheatbig feels confident that this schedule will meet everyone's approval. After all, Dr. Wheatbig only claims to be a friend of the students, but he is a fiend of the faculty and other employees.

the Avloff, insert date when available

OPINIONATED



**Better Luck Next Time...**  
Although candidate Geoff Colemann (right) lost at the polls, he is eyeing potential running mates for another bid.

### ERA1 annexed by county

By Harvey Schmidlapp  
Avloff Staff Reporter

the county council, in a surprise move, annexed off the land owned by ERA1 and GEI today. Many county officials said that they didn't want any reliable sources of income in the area, but rather the type of positions and variable monies that would attract more transients, besides, said one man, I'm tired of these jet heads keeping my wife and officials out all night. Many officials report that "the money raised by selling off the land from

underneath the rightful owners should last a few months to a year unless we can find another hare-brained scheme to waste it on." "who knows, we may be able to get another two or three under-utilized malls built on the sites," asked if this is in any way related to the move to ban driving on paved roads, the county spokesman said, "no told you that! we were supposed to keep that secret! whats your name?!" where do you live?!! I want answer! this is an outrage! why can't I do what I want?!! I'm gonna hold my breath.....!!

*Letters to the Editor*

#### Confused

To the Editor:  
"What in this hale is goin' on round this here place anyhow? I mean I was settin' in the YUC chawin on a fine piece 'o gristle when I saw this here filly sashay over to a stall right next to mine, so I let rip a belch to let her know that I was admire her garzones. Then that lady came right up to me and left the imprint of her left hand upside my face. I don't know about ya'll, but wear I come frume, a women moves her p-u-ss, and they don't gi upply. My daddy say that womnin doan belong around airryplanes anyhow, be- it ain't naitural. He say they should be home raisein young'ins. hale, I tolk that chick in the YUC that and she near had convulsions and vapors. Next thing you no and they'll have forign students here, too.  
Joe-Bob-Jim Smackwood

my program never gets even mentioned! This would never happen back home. Back home every one gets treated right, and everything is swell. Gee, maybe because we are all white, anglo-saxon protestants, but I don't know. But I think it is about time Drum majoring with aviation applications was mentioned.

Concerned IN

#### Happy and satisfied

To the Editor:  
I would like to take this opportunity to let the administration of this school know that I am completely happy and satisfied with everything about the place. There is absolutely nothing I can think of that needs to be changed. I do not understand how anyone could want anything to be changed. I would like to say more about how happy and content I am at Riddle, but it's time for my medication and shock therapy. Maybe I'll have more time to write after my lobotomy.  
Mark Libel, Inc.  
Box X666

#### Better back home

To the Editor:  
I'm tired of all this griping about this program being maltreated and that program doesn't get treated right, when

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Systems Manager  
Gordon Chandra CDP  
Advertising Dominatrix  
Tabatha Welcher  
Production Clown  
'Ice' Burg

Lab Rat  
Dick Clark

This week's batch of morons:  
The Amazing Bino (Blimp dud), Space Baby, Toots, Phil Fish, Mer! in the Magic an (none of his photos here!)

The opinions expressed in this newsrag are those of the majority of the Editorial Board, and a minority represent those of the Institute, the staff of the Avloff, and members of various student bodies. However, in the past few issues, these opinions haven't been worth a plugged nickel, so we can't apsee for everybody associated with this disgusting piece of reconstructed tree bark.

Letters appearing in the Avloff do not necessarily reflect the intelligence of their writers. Letters submitted may be edited for brevity, common sense, I.Q., punctuation, and may be printed provided they are legible, obscene or libelous preferably at three. All letters must be accompanied by the thumbprint of the writer and \$24 in crisp new bills. Names may be withheld on request of the spineless wimp that joined the letter at the discretion of the Editor (also a spineless wimp) I Letter writers shall confine themselves to a single paddad cell.

The Avloff Editorial Board members are: George Washington, John Adams, James Madison, Abe Lincoln-Mercury, Sitting Bull, Gen. George A. Custer, USA (Ret.), Ford Edc.  
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Correspondence may be addressed to: The Avloff, Embury-Rodde Anachronistic Institute, Regional Airport, Daytona Beach, California

### CHECK

(continued from page 1)  
did the beautiful blonde (38C) who was piloting.  
This year, the flight department will tie down all aircraft two hours before and after the scheduled gravity check. In the past, there have been some problems with toilets, coin operated vending machines and electronic games. Also, bald men: must

secure toupees on April 1.  
We regret the inconvenience of the gravitation check but each year the necessity arises. Any unusual effects of which you have not been warned, should be noted and reported to Dr. B. S. Round, Chief of the College of Engineering and Aviation Stuff, and Technical Director of the annual gravitation check.

#### Correction

Last week's AVLOFF neglected to contain correct punctuation in several places. Please insert these where needed.

CONTRA LINE

# Learn to Drive the Big Rigs!

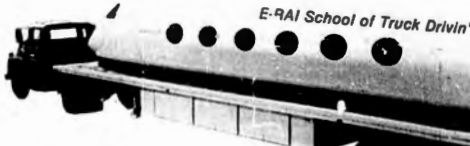
Mark Libel, Inc. 10000 Embury-Rodde Anachronistic Institute, Regional Airport, Daytona Beach, California

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run 'em over instead



# Soviet Benefit Starts Soon

## Thousands to die for fun

By Timkin Markovski  
Avloff Perversity Specialist

'Hands Across Siberia', a benefit designed to help exterminate the prisoners of the far eastern wastelands, has been receiving worldwide acclaim and last week was kicked off to a rousing start.

The benefit, originally conceived by the 'USSR for Cuba' worldwide striptease competition committee, is basically a plan to

unite all non-capitalist countries and ensure the rich get richer and the poor get the shirt.

Mikhail "Sweet Thing" Jacksonovich, the famous singer of such tunes as "Chiller" and "Beat Me", is the honorary chairman and hostess for the event in which over two million loyal Gorky citizens will hand-cuff themselves together and walk in opposite directions. This will have a two-fold effect. First, the survivors will be unable to work since the forced march is anticipated to last three months.

This will result in an easy decision-making process since a nonproductive citizen is worthless and must be shot. Secondly, the non-survivors will help fertilize the homeland and keep the Politburo fat.

Tax, the only true and factual publication in the world, will cover the events from Moscow utilizing remote cameras mounted in the foreheads of dissidents and rabble-rousers. WKGB will also televise all assassinations during prime time for your viewing pleasure.

For those comrades who do not have the time to participate in the massacre, a full length videotape will be available for rental and sale soon. The end result of the benefit will hopefully be the eradication of all far eastern prisoners and will make room for the newest arrivals from Yugoslavia and other dissident nations.

As part of the rapid-growing communist block, Siberia is the home of such late patriots as Alexie Kromamorkal, who actually had the guts to suggest that people lock their doors. Poor Alexie was tragically killed in an accidental fall into wet cement during the May Day celebrations.

Others, such as Andre Knowluchka, the dissident who spoke out against the senseless rapes of Siberian sheep, also met their fates early in life. Andre suade the stupid mistake of hitchhiking on the train tracks, an unfortunate indeed.

For those comrades who have friends and relatives who they feel should participate in this benefit, KGB offices are located everywhere. Simply call and state the offense, or, if desired, we will fabricate one for you. We aim to please, both on duty and off.



By Toiletta Spaghetta  
Avloff Juvenile Delinquent

Music Toiletpaper visited Daytona Beach this past week, filming live spots and interviews for printing on next year's toilet paper. The 60 plus staff of MTP traveled to Daytona in the hopes of making more Americans aware of the varied uses of toilet paper and tissue and thereby sell alot of paper and make alot of money.

MTP, based out of Harvard University's 'toilet square', is a multi-million dollar industry which prints music on tissue paper and other sundries for the convenience of those who do not have time to appreciate music in any other way. Famous tunes such as "When Dogs Die" and "Punch Me, I'm a Deuce" have been immortalized on paper and in septic tanks the world over.

The famous Toilet Jockey Allan Hinder autographed rolls of J-Mert Tissue Saturday, interspersed with sample packages of the new 17 inch roll for use in commodes. Martie Queen, also a professional Toilet Jockey, confined herself with the more feminine roll of TP Tester and has not been seen since.

On a more sober note, we are sad to report that the Rolling Rocks' new release "Harvard Scuffie" has been banned from publication. However, the ACLU has picked it up and hopefully we will see it on next year's toilet paper rolls.

For all the music, when you want to see it, you simply can't beat MTP. MTP is available at sleazier stores everywhere.

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SOCIALIST REPUBLICS



What a simply charming Siberian day!

# We're looking for a few good nerds

As a Margarine Officer, you could be in charge of a Mach .2 B/S-24F, a vertical take-off submarine, or even be a subsonic nuclear missile pilot. You will make the decisions who to bomb. You will pilot the missile to its target. You will die. We need leaders of this high insanity level. We can teach even you to be one. If you are a sophomore



freshman, can print your name legibly, and would like to die before the completion of puberty, ask about our undergraduate officer commissioning program. Starting salaries are simply unbelievable and separation from your loved ones a guarantee. Be one of the few, The insane, The Margarines.

This could be YOU!!



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freshman, can print your name legibly, and would like to die before the completion of puberty, ask about our undergraduate officer commissioning program. Starting salaries are simply unbelievable and separation from your loved ones a guarantee. Be one of the few, The insane, The Margarines.

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# Margarines



# Orbital Incriminations



# Acronyms we'd like to see

By the Staff and Friends of Avioff Week and Space Tech

Our space agency has given us so much since its inception in the 50's. Each year we hear of new spin-offs that make our lives on Earth easier. Digital watches, velcro, and teflon pans are just a few examples of life-made-easy by NASA.

NASA has also given us more acronyms than we care to mention. The folks at NASA have put out volume after volume of those little capital letters that mean so much, and say so little.

These acronyms are meant to make life go easier, just like teflon.

**VAB, OPF, PAM, OV, SRB, ET, RFP, JEA, MOU, AFFTC, AFTI, HO, HO, HO CHI MIHN, STS, KSC, JSC, MFC, MMU, CDR, LOX, GPC, CCAFS, MLP, MPS, JAB, IMU, PLT, STA, RCS, RSS, SCA and SLF** are just a few of the more popular acronyms those familiar with these pages have seen before.

Now we digress and let the space agency know about some of the acronyms we'd like to see:

**MDF** — Mobile Dining Facility

Now known as the snack mobile, this mobile roach coach (MRC) delivers a much needed food break (FB) to employees at the Kennedy Space Center (KSC).

**SABRINA** — Single Axis Bio-Rhythm Instrumentation Association

A group of nature lovers (NL) dedicated to the research and development of a zero-G facility (ZGF) to determine the moods of modern man when stimulated by varied stimuli.

**SGAA** — Spending Gross Amounts Administration  
This new branch of the Government will continue an outstanding tradition of wasting taxpayer's money (TPM) on insignificant programs such as the New York tank.

**RLDEF** — Real Long Duration Exposure Facility

This multi-million dollar facility (MMDF) was launched into Earth orbit to stay in space for one year exposing various stuff (VS) to the vacuum of space (VOS). It's still up there after two years. Need we say more.

**NORAD** — Nightly Orbital Rendezvous And Docking  
A spin-off program parented by SABRINA, this activity will give new meaning to the concept of the 22,000-mile-high club.

**COLA** — Carbonization Of Living Animals

Another spin-off of the SABRINA program, this program will study the injection of high-pressure into closed containers to determine the force needed to blow the cork off. Effervescence is a new area of study, and with the proper stimuli, COLA could be wild.

# Comet claims campus in critical crisis

## Students feel creepy, cry continuously during crazy calamity

By Petrov Wasaylewski Avioff Reporter Type

LENNINGRAD, USSR — Haley's comet, which travels around the sun every 80 years is on its final celestial voyage. Soviet astronomer Viktor Ivanovich Borisov predicts that the comet will strike the earth on the evening of April 15.

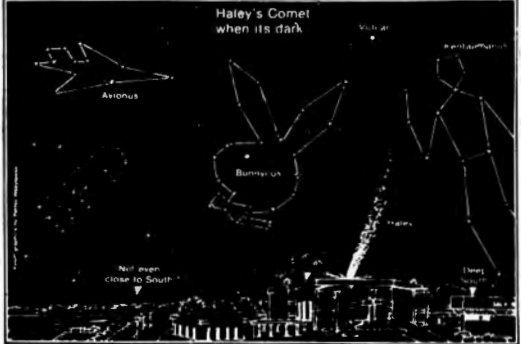
Early studies indicated that Comet Haley would strike somewhere in the southeastern United States. Recent measurements made by the two Soviet space probes, Vague 1 and Vague 2, have pinpointed the comet's trajectory. Coordinating this data with telemetry from the Japanese Sushu probe, scientists predict that the comet will fall directly on Embry-Riddle's 'A' Building.

Reaction to the impending disaster has been mixed. California born ERAU student Skip Hodad commented "Wow...bit chint." The Young Fascists Klan has issued an official statement to the effect that "the whole thing is a Communist plot.

Most of the student body is apathetic to their impending doom, but Chet Hunter is touting the event as the highlight of Spirit Week and Mugga Mugga Thigh Sorecity plans to supply popcorn and soft drinks to spectators.

The University is activating all of its hurricane/comet disaster contingency plans. University aircraft will be moved to the airport in Relando, a safer inland location. Windows of all campus buildings will be taped and loose objects tied down.

The comet, originally booked



Where Haley's Comet is scheduled to impact Terra. When informed of the impending disaster, ERAU's Director of Physical Change,

Pete Geyser, said, "That's great! It'll do all the necessary excavation we need to start the next phase of The Master Plan."

to appear in the University Center, was moved to 'A' Building due to scheduling conflicts according to Kathy Nova, director of ERAU Student Activities.

Embry-Riddle's own astronomy professor Bob Flack will assist students wishing to view the spectacle first hand. No telescopes or binoculars will be required to see the comet. It may be viewed with the naked eye. This once in a lifetime experience. The impending disaster has en-

couraged survivalists to group at the Kennedy Space Center where a planned hijacking of a Delta expendable launch vehicle, now erected on pad 17 at Cape Canaveral Air Force Station is planned.

The reason they want to hijack the Delta is to fly the rocket into space where they hope to fly to the mirror planet Earth now orbiting the sun 180 degrees behind our orbit.

The hijacking of the Delta may add an unpleasant angle to this already overworked Haley's Comet story idea.

# Fleet gets new job as carnival ride

## Orbiters pull double duty

By George Filler Avioff Reporter Type

The current halt in launches from the Kennedy Space Center has NASA wondering what will fill the gap in the



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One possible solution NASA has investigated is to use Columbia, Discovery, and Atlantis as a giant carnival ride to be erected at Spaceport USA — KSC's visitor center.

The three orbiters will be tied to a large central pole which will be firmly planted into the ground. Children of all ages will be able to ride the grounded orbiters five-minutes at a time.

The cost of the space-age ride is \$30 million per person. Discounts will be available for groups of 300 or more, but reservations must be made well in advance.

Japanese Sushu probe, scientists predict that the comet will fall directly on Embry-Riddle's 'A' Building.

Reaction to the impending disaster has been mixed. California born ERAU student Skip Hodad commented "Wow...bit chint." The Young Fascists Klan has issued an official statement to the effect that "the whole thing is a Communist plot.

Most of the student body is apathetic to their impending doom, but Chet Hunter is touting the event as the highlight of Spirit Week and Mugga Mugga Thigh Sorecity plans to supply popcorn and soft drinks to spectators.

The University is activating all of its hurricane/comet disaster contingency plans. University aircraft will be moved to the airport in Relando, a safe inland location. Windows of all campus buildings will be taped and loose objects tied down.

The comet, originally booked



Continuous concern causes conservative college co-eds to covort less conspicuously

# Now for a limited time... Get your Halley's Comet BFD T-Shirts while there is still a lack of interest

# Coming soon to Avioff Week and

Single AXIS DR. Kytlym  
INstrumentation Association

A group of nature lovers (NL) dedicated to the research and development of a zero-G facility (ZGF) to determine the moods of modern man when stimulated by varied stimuli.

**SGAA** — Spending Gross Amounts Administration

This new branch of the Government will continue an outstanding tradition of wasting taxpayer's money (TPM) on insignificant programs such as the new York tank.

**RLDEF** — Real Long Duration Exposure Facility

This multi-million dollar facility (MMDF) was launched into Earth orbit to stay in space for one year exposing various stuff (VS) to the vacuum of space (VOS). It's still up there after two years. Need we say more.

**NORAD** — Nightly Orbital Rendezvous And Docking

A spin-off program parented by SABRINA, this activity will give new meaning to the concept of the 22,000-mile-high club.

**COLA** — Carbonization Of Living Animals

Another spin-off of the SABRINA program, this program will study the injection of high-pressure into closed containers to determine the force needed to blow the cork off. Effervescence is a new area of study, and with the proper stimuli, COLA could be wild.

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THRUST LINE

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Get your Halley's Comet  
BFD T-Shirts while there  
is still a lack of interest



To order call toll free 1-800-555-5BFD. Operators are standing by. So you don't forget, call before the comet hits the Earth.

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Space Tech

A full report on the new

Second Generation  
Manned Maneuvering  
Unit

Only in the Avioff...





## Bull Nelson competes for lead role in Superman IV

By Barbara Howarth/Hings Entertainment Last Week

Werner Brothers has announced that the years-long talent hunt for the new Superman has concluded and the winner announced. The new "man of steel" is none other than Florida congressman Bull Nelson from the Coconut Beach area.

Bull will star in the feature-length film "Superman: The Movie Part Four" now in production for a December release. Bull won the part largely because of his experience as an astronaut this January, flying aboard the shuttle.

The need for a new star was precipitated by the fact that Christopher Wreath was fed up with the Superman image, and wouldn't fit into his lights again. Wreath has starred in the three previous Superman films. Werner producers knew they had their man when they learned

from the National Aeronautics and Special Effects Administration (NASA) that Bull did not need wires to fly. A freak accident on board the shuttle while he was in space gave Bull the powers to fly.

It is estimated that over three hundred million dollars will be saved by the film makers when expensive special effects will not be needed. In a recent interview with the Avioff, Bull explained how he acquired his unique powers: AVIOFF: Bull, tell us how you acquired your unique powers. BULL: Well, Barbara, let me tell you. When them SRB's lit off I knew we were movin and my life would never be the same. The other three of us in the cabin were a might 'cerned too cuz we knew that we was headin where no man had gone before. AVIOFF: Uh-huh.

BULL: After we were in orbit we saw a peculiar cloud comin up on us fast. We couldn't move the or-

biter away in time and the next thing we knew we were inside of it. I felt a tingling all over my body and so did everyone else — that is, they felt tingling in their bodies too.

AVIOFF: Uh-huh. BULL: Well then all sorts a weird things started to happen. I started drifting all over the cabin and I noticed that Commander Hewt was turning into some sort of thing. The other two crew members turned invisible and started stretching all over the flight deck as though they were made of rubber.

AVIOFF: It sounds like some sort of comic book fantasy. BULL: You know Barbara, it sounds like some sort of comic book fantasy. But anyway, after my flight I knew that I had the power to fly and had the strength of ten men.

We can expect to see the star studded spectacle some time later this year.



Congressman Bull Nelson shows his flying astronaut to leap light years ahead in competition — proving that he could make everyone believe a man can really fly.



## K9 Aerospace Clique

By Admiral James T. Kirk, K9 Aerospace Leader

Space, the final frontier. These are the voyages of the K9 Aerospace Clique. Its five-year mission, to seek out new female life forms, to boldly go where no man has gone before.

Tonight's meeting will be held at stardate 8604.01.730 on deck A-201. Watch out for the hole in the bulkhead on deck A-101. You'll need atmospheric protection devices — also known as a space suit to fly freshmen rookies.

Montgomery Rothermel, and Yeoman Janice Metzger will show the slides of their favorite planets. Yeoman Metzger says she'll paint herself green and show us how they do things on Orion.

Commander Getsy will also show us his light saber that he built after loving his when he battled his father on the planet Bespin. *Admiral, you're confusing your movies again. Snap out of it. Here, I'll give you a hypo. Thanks Bones. I need that.*

plunder, rape, and pillage the neighboring village.

The only thing holding us back is the advice of our supreme advisor William "god" Brown. He says it would be nasty of us to change the delicate balance of a planet's sociological, technological, psychological, ecological, zoological, anthropological, illogical mix.

We'll also discuss the rumor that a Klingon, and/or Klingon sympathizers have invaded the upper echelons of Starfleet. The full whatever of this may or may not be apparent.

So don't miss this exciting time tonight, same star-time, same star-channel.

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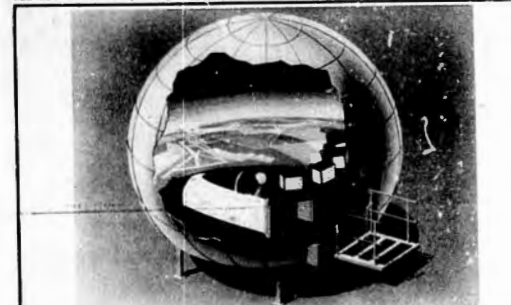
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\*\*\*\*\*

# Join the 'I WUV WUBBO' Fan Club



Millions have joined the fan club for the best astronaut of the bunch.

I joined, it's well worth the price. This is better than LB or AJAA. — Kurt Valtheim

LOOK AT ALL YOU GET WITH YOUR PAID MEMBERSHIP

- 'I Wuv Wubbo' T-Shirt
- 'I Wuv Wubbo' Mustache
- 'I Wuv Wubbo' Autographed picture

The DoD cancelled the T-46 trainer last week and announced its replacement, the Beach Ball. The Ball sports a wing design allowing greater cost overruns. Program cost is \$6 billion.

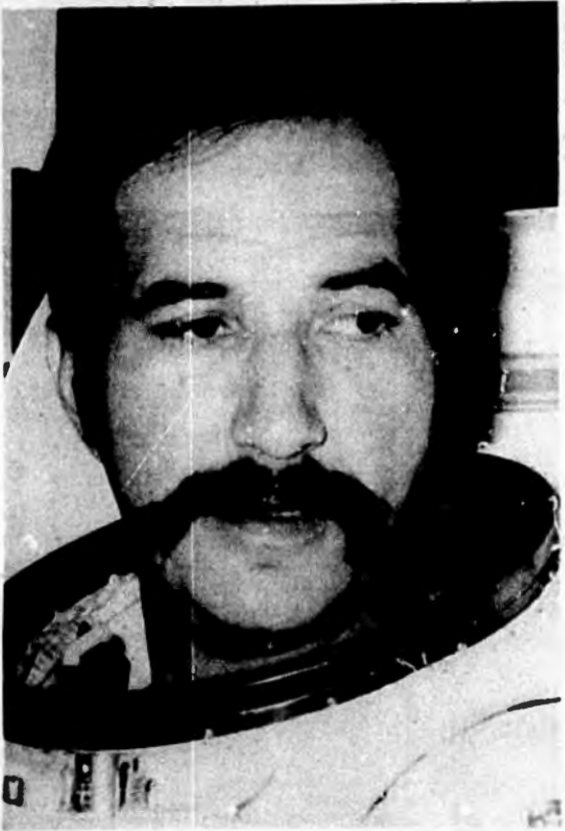
Article photo by Mitch E. Meyers

Tomlin's meeting with the... at stardate 8604.01.730 on deck A-201. Watch out for the hole in the bulkhead on deck A-101, you'll need atmospheric protection devices — also known as a space suit to you Freshmen rookies.  
My top officers, Commander Spock Geisy, Captain Mon-

Benjamin... you're confusing your movies again. Snap out of it. Here, I'll give you a hypo. Thanks Bones, I needed that.  
After the big show, K9 members will debate whether they should go ahead and intervene in the private development of a young planet — breaking the prime directive — and

introduction of biological... We'll also discuss the rumor that a Klingon, and/or Klingon sympathizers have invaded the upper echelons of Starfleet. The full whatever of this may or may not be apparent.  
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## LOOK AT ALL YOU GET WITH YOUR PAID MEMBERSHIP

- 'I Wuv Wubbo' T-Shirt
- 'I Wuv Wubbo' Mustache
- 'I Wuv Wubbo' Autographed picture
- 'I Wuv Wubbo' Membership certificate suitable for framing
- 'I Wuv Wubbo' Membership card for your wallet
- And a subscription to our monthly newsletter 'The I Wuv Wubbo Weekly Weport'

This ad paid for by the 'I Wuv Wubbo' fan club, a not-for-profit organization dedicated to the support of all humans who had parents with weird names and who gave their children weird names.

Officers:  
'Buzz' Aldrin      'Hoot' Gibson      'Crip' Crippen      'Pinky' Nelson

Wubbo Ockels, Dutch Astronaut of Mission 81-A, Spacelab D-1 (German)

## The Co-op Cage

### Engineering student gains bogus co-op experience with Federal Aviation jerks

By Squirm N. Hatchbrow  
Avioff Staff Reporter

Cheff Spaghetti is a god because he co-oped last year. Spaghetti, a ninth-year senior in the Aero-nautical Engineering department, worked at the Federal Center for the FAB (Federal Aviation Bureau-crat).  
"Hey baby...I'm a pretty cool dude," commented Spaghetti. "I did everything for the FAB; they couldn't function without me."  
When asked what exactly he did, Spaghetti began to talk forever. "Well...I uh...I was test pilot Yea...that's it. I test few supersonic jets with my co-pilot...uh...Morgan Fairchild! Yea...that's it...that's the ticket."  
According to Cheff's supervisor, Mr. Richard Dick, Spaghetti didn't have the guts to

even look at an airplane, let alone test fly one.  
"Cheff Spaghetti! Yea, I know that jerk. He didn't even know what an airplane looked like," commented Dick.  
Dick went on to explain that Spaghetti failed the Co-op Bowling Ball Test that was administered by the FAB. This test

anything more pathetic." Mr. Dick stated.  
After failing the Bowling Ball Test, Spaghetti was then fired from a cannon onto a brick wall. Sure enough, his spineless, gelatinous body impacted the wall and made a "coo-wooppp" sound, thus proving that Cheff was indeed a co-op.



Cheff Spaghetti  
A co-op god

"I uh...I test flew jets! Yea...that's it! That's the ticket! I was a test pilot god!"

Involves locking a co-op in a tightly sealed room with nothing except a bowling ball. The objective is to have the co-op return the bowling ball in one piece after one hour.

When asked about his questionable sex life, Cheff responded angrily. "You just shut your face about my private life you scum-sucking journalist slimeball! What Morgan and I do is none of your damned business."  
Cheff received the standard government benefits at the FAB

which was test flying high performance jets. Cheff admirably performed the incredibly difficult tasks of preparing coffee and making xerox copies.

"It was great experience," commented Cheff. "And I was paid two million...no...ten million dollars! Yea...that's it...that's the ticket!"

By Charley Boy  
Avioff Alumni Correspondent

Editors Note: The following "maintenance notes" were surreptitiously pilfered from the flight department's maintenance office.

1. Aircraft not parked in the last three spots of each row will, if not scheduled to depart before the last flight arrives, be reloaded prior to assignment of the next flight regardless of fuel quantity.
2. Tearing on ramp has led to several accidents and is now prohibited.
3. Persons forgetting to replace clewboard hinge first, number up with keys, neatly arranged in the lower right hand corner will be hospitalized if not already scheduled for castration because of improper tie-down techniques.
4. Co-op landings should be noted on the clipboard.
5. Maintenance will now incinerate 121's and can be awakened by the call sign Mayday 92 Echo Romeo.
6. New Maintenance policy: You break it, you buy it.
7. The "No Aircraft" policy has been eliminated. Instructors may now wash aircraft at 1/2 their hourly rate.

The maintenance department has noticed some unusual write-ups. Listed below are the discrepancies and rem fixes.

1. Total system failure (4 short final - scheduled for repair).
2. Pungent odor in cabin - observe wash 4 days decay.
3. Flat left main - only flat on one side.
4. Left wing asymmetry at c/wave - unable to duplicate problem during ground ramp.
5. Carbon monoxide detector darkened, strong smell of exhaust fumes - reject on next flight.
6. Blind strike - contact union representative.
7. Engine misfire - weight and balance recalculated to reflect change.

BEST OF WHEEL: No one maliciously tries to make mistakes, but if worse comes to worse, we might learn something.

By Stu Dentz  
Avioff Staff Reporter

The original ERAI Sasna C-172 Chickensaw has been found, and will be flown to the school for no apparent reason.  
Marv "Hand-Prop" Gustavsonwitz, owner of the airframe, has said that if he'd known that the 172 had been used to train junior birdmen in Florida, he'd never have traded all the toilet paper rolls he did to acquire the thing.  
Gustavsonwitzberg now uses the plane for banner towing, blowing figs out of fig trees, charter flights touring the Utah salt flats, and scaring cattle.  
"I've never been such a dad-blamed fool before in all my life!"

gawd knows how many times!" said the 23 year old Von Gustavsonsteinwitzberg. "Hell, I haven't got over 400,000 hours by trusting my butt to just any old scrap of tin!" the old barn-stormer said.  
The University has stated that they do not intend to let the aircraft land at Daytona, much less use the school ramp. "This guy thinks we owe him something because he got stuck with an old beat-up airplane. Von McGustavsonsteinwitzberg is an old coot who is just mad because his University application was missing from his Popular Mechanics."  
Sasna has denied making the aircraft, mainly due to the modifications that have been

## Real pilot's guide to preflight ops



Always approaching on the aircraft's blind side as not to disturb it, begin the pre-flight. If fluids appear to be present, light a match and inspect closer to determine their type.



Check for any apparent deformations in the wrinkles of the sheet-metal. Make sure that unrepaired items have not been repaired, so that you are not the first to fly with the fix.

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"Spaghetti not only broke the bowling ball, but he lost some of the pieces! I've never seen

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**The AUGER INN**  
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Visit our Lounge:  
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**Amelia Earhart**  
and the  
**'Lost at Sea Review'**

Drink Specials:  
Tues: 2-for-1 Kamikazes (while they last)  
Wed: \$1.00 B-52's  
Fri: Jet-A 50¢ a gallon

Sat: Probe and Drogue Party  
Sun: o Free Steak dinners

o to the first 100 customers that break Mach 0  
Mon: Slidewinder Special - Heat-seekin' drinks

★ Get bombed at our Lounge ★  
Located only a MK-52's throw from China Lake

**wanted**

WANTED: Info when available

WANTED: A real cone. One that is visible in the sky and not just on T-shirts and in questionable cabloids using silly graphics. Halley and Khoustir need not apply.

WANTED: 200 cases ho model. Also any other models of defunct TV series, old movies or real space fact. Must be listed on original price paid.  
Trekkie ERAU box 1701

POSITION AVAILABLE - Missionary

**personals**

To "Joos" from the Keyzone.  
Thanks for the shell of vic-y's, the spogy of defunct and the smell of sweet mucus. We treasure every single moment. Nobody asks like you do.

Hi Susky,  
The "ai" you have about you is certainly enough to shake me up. Yeah Kid, I look forward to the olfactory pleasures you give me daily.

Dear Surfer  
When the child's, every the kids can play! However, I'll be available for whatever needs you might have.

Garfield,  
Hell Must say you are cute as ever.

old sister  
blond

**AIRCRAFT RENTAL**  
If it flies we rent it

**YOU CAN WIN A DATE**  
Daytona Dating Service

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The High Desert's Most Popular Nightspot

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Now Appearing:

**Amelia Earhart  
and the  
'Lost at Sea Review'**

**Drink Specials:**

Tues: 2-for-1 Kamikazes (while they last)

Wed: \$1.00 B-52's

Fri: Jet-A 50¢ a gallon

Sat: 'Probe and Droge Party'

Sun: ☆ Free Steak dinners ☆

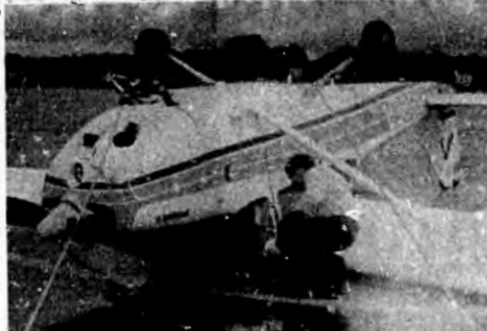
☆ to the first 100 customers that break Mach ☆

Mon: Sidewinder Special— Heat-seeking drinks

★ **Get bombed at our Lounge** ★

Located only a MK-82's throw from China Lake

OFF CENTER LINE



Kneel down to remove foreign objects from the windscreen, and wipe on a new coat of oil and scum. Place barf bags where the instructor can reach them during those maneuvers.



Now you are done!! One more quick look at the girls on the flight line, so you can forget the gust locks and tie-downs, and you'll be off! Hold down the mike switch while on taxi.

### wanted

WANTED - Info when available

WANTED - A reef comet. One that is visible in the sky and not just on T-shirts and in questionable tabloids using silly graphics. Halley and Khoustik need not apply

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2001 moon bus model. Also any other models of defunct TV series, old movies or real space fact. Must be sold at original price paid.  
Trekkie ERAU box 1701

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Hi Stinky,

The "air" you have about you is certainly enough to shake me up. Yeah Kid, I look forward to the olfactory pleasures you give me daily.

an old stinker

To "Toots" from the Keystone.  
Thanks for the thrill of victory, the agony of defeat and the smell of sweet success. We treasure every single moment. Nobody ads like you do.

the bottle gang

Garfield,  
Hi! Must say you're as cute as ever.

Odie II

Dear Surise

When the chief's away the kids can play! However, I'll be available for whatever needs you might have.

Elwood

## AIRCRAFT RENTAL

If it flies we rent it

Cessna 150	27 per hour
Cessna 172RG	50 per hour
SR-71	100,000 per hour ☆
F-19 Stealth	
B-1	10,00 per hour ☆
C130	27 per hour ☆
F-4E Phantom	5,000 per hour ☆
X-29	3,000 per hour ☆



Logbooks available: You got the bucks, we got your 1,000 hours of turbine time! Aircraft range from Beach 18 to TriStar.

## ACME Flight Center

\*Note on planes marked with ☆ you must own your own pressure suit and have at least 100 hours in a Chicienhawk

Located at Daytona Regional Spaceport next to HDAU Inaane asyl. n USSR

For C150 and C172 you must have at least 2000 hours and your ATP plus have a note from your mother

Phone 24 hours a day

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Daytona Dating service



Just call 916-2828

If you come to daytona dating service and fill out an application you can win a free date. We at Daytona dating service are here to help so don't hide those ugly faces any longer. This photo is of our last winner after his glamorous night out. All he could say was, "love those overblites."

# ERAU

An award-winning collegiate newspaper

Embry-Riddle Aeronautical University, Daytona Beach, Florida

60 YEARS OF AVIATION EXCELLENCE  
1916-1976

Volume 52, Issue 11

March 26, 1986

## Students select Kash-Bzezinski Over 790 people vote in campus-wide SGA election

By Steve Cagle

In the SGA elections held on Thursday March 20, the team of A.N. "Kash" Prakash and Lora Bzezinski soundly defeated the team of Jeff Kohlman and Roger Price for president and vice-president of the SGA. The team of Michael Geletka and Kirk Gunn finished a distant third.

Out of 790 votes cast, Prakash/Bzezinski garnered 508 votes to Kohlman/Price's 196 votes. The Geletka/Gunn ticket received 46 votes.

There were thirteen students running for ten SGA representative seats, and the following individuals were elected to serve: John Barrett, Suzanne Davison, Debra Perciful, Angel Garcia, Chris Seckinger, Marc Behan,

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Bzezinski added that they intend to build upon the good programs which are already in effect. Bzezinski felt the reason for their victory was the fact that they got out and talked to students. "The AMT students were impressed that I came over to talk with them," noted Bzezinski as she discussed how some students felt left out of SGA decisions.

SGA vice-president, Jeff Kohlman, said "I wish the best for Kash and Lora and the students." He noted, "I ran to benefit the students." Kohlman intends to continue working in SGA by becoming more involved in the other divisions of the SGA.



Students waited patiently outside of the polls for the SGA election last Thursday. In the election, Kash-Bzezinski won the top slots. A total of 790 people voted in the annual event.

Avion photo by Mark Stern-Montagony

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Volume 52, Issue 11

Embry-Riddle Aeronautical University, Daytona Beach, Florida

60 YEARS OF AVIATION EXCELLENCE  
1916-1976

March 26, 1986

## Students select Kash-Bzezinski Over 790 people vote in campus-wide SGA election

By Steve Cagle

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## FAA awards major grant to ERAU for Airway Sci.

By Bill Fisher  
Avion Staff Reporter

Early last week the Federal Aviation Administration announced approval of a \$500,000 matching funds grant to Embry-Riddle Aeronautical University. The grant, which ERAU is obligated to match, will be used to construct, operate and maintain an Airway Science Simulation Laboratory.

The University had submitted a comprehensive proposal late last year for one million dollars. It included an outline of the facilities and programs that would encompass the laboratory. With only half that amount awarded, the University will now have to "reconfigure the proposal" to meet the difference in what was requested, and what the University actually received, according to William L. Motzel, Director of Special Projects at ERAU.

The objectives of the laboratory, according to the original proposal, are:

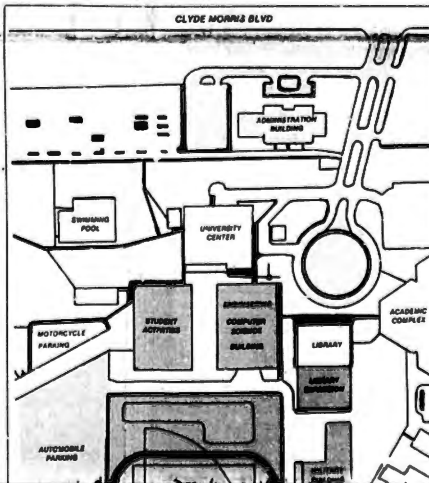
- 1) To improve the knowledge,

the development of quality instructional materials which can be used to standardize and upgrade the AWS Program at institutions which lack extensive aviation resources.

- 2) To provide a resource for the development of aviation oriented materials/projects to be used in conjunction with the Aviation and Space Education Forum program to motivate high school students to math/science/technology oriented programs.

- 3) To integrate Airway Science Simulation Laboratory experience into all appropriate ERAU degree programs in order to enhance all aviation career oriented student's understanding of the National Airway System.

The list of equipment that may be used to furnish the laboratory includes an IBM 4361 Central Processor with 22 computer terminals, three 36" TV monitors, one Frasca turbo-jet Training Device, one Air Traffic Control Radar Trainer and one Alden Radar Information System.



## Univ. announces new degree program for fall

Computer Info. Systems degrees

By Gordon F. Crago

Computer students will have new curriculum options this Fall with the introduction of a new Computer Information Systems (C.I.S.) major as well as a revision of the current Computer Science with Aviation Applications (C.S.W.A.A.) degree. The programs are open to continuing students who are being encouraged to investigate them.

**Computer Information Systems**

The C.I.S. program, a major in the Aviation Business Administration degree, was created to provide students to fill the need for productive applications programmers and analysts in the business environment" according to Dean James in conjunction with Shirley Fedorovich, Dr. Jim Swanson, and Jim Thorne, the program's faculty. James indicated that the emphasis of the program will be "primarily COBOL", the language used in the two applications program development courses, C.I.S. 220 and 330.

James plans to require students entering the program to purchase their own IBM or compatible personal computer, a move he believes will make students "more productive". James pledged that

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The objectives of the laboratory, according to the original proposal, are:

1) To improve the knowledge, skills and potential of the Airway Science Degree students.

2) To increase enrollments in the Airway Science Degree Program; especially minority students.

3) To increase the number of Airway Science Degree students competing for FAA positions/careers.

4) To provide a resource for

the development of quality instructional materials which can be used to standardize and upgrade the AWS Program at institutions which lack extensive aviation resources.

5) To provide a resource for the development of aviation oriented materials/projects to be used in conjunction with the Aviation and Space Education Forum program to motivate high school students to math/science/technology oriented programs.

6) To integrate Airway Science Simulation Laboratory experience into all appropriate ERAU degree programs in order to enhance all aviation career oriented student's understanding of the National Airway System.

The list of equipment that may be used to furnish the laboratory includes an IBM 4361 Central Processor with 22 computer terminals, three 36" TV monitors, one Frasca turbo-jet Training Device, one Air Traffic Control Radar Trainer and one Alden Weather Information System.

The FAA had earmarked three million dollars to be dispersed in the form of matching fund grants to stimulate the development of FAA approved Airway Science curriculum in the nation's universities. There were 33 proposals submitted to the FAA and only 10 of those 33 gained the FAA's approval.

## ERAU student killed Motorcyclist dies in local accident

By Bill Fisher  
Avion Staff Reporter

An Embry-Riddle student was killed, when his motorcycle collided with a crane truck at the intersection of Nova and Beville Roads.

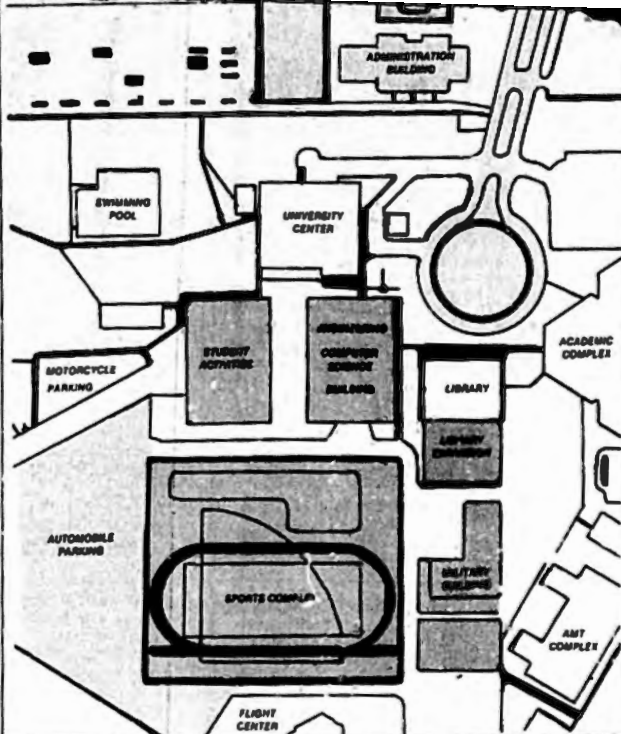
Ronald Wentzel, an aeronautical engineering student, was traveling west on Beville Road, Tuesday March 18 at 1:26 p.m. when his motorcycle struck a truck turning from the eastbound lane of Beville into the

northbound lane of Nova Road. He was pronounced dead on arrival at Halifax Hospital.

There are reports that the traffic light at the intersection was working improperly at the time of the accident. Daytona Beach Police request that anyone who observed the traffic light at the time of the accident, please contact them at 255-1431.

Wentzel is survived by his wife, Ann Marie, and their four sons.

Funeral Services were held on Saturday March 22 at the Westminster by the Sea Presbyterian Church.



### Master Plan

This plan for campus renovation was approved March 17 and represents the best proposals to date. The colored areas are complexes, including the

new Administration Bldg., to be completed this summer. The areas in gray are facilities that have yet to be approved by the Board of Trustees.

Avion graphics by John Gately

## School officials look at new payment plan

By Patrick W. McCarthy

The Embry-Riddle Daytona Beach campus will soon place a new tuition payment plan into effect. The announcement of the new plan will take place in the next few days, according to Dean of Student Affairs Robert Rockett.

The information contained in the yellow pre-registration booklets (Fall 1986) is not the policy which will be used. The

deadline of August 20 stated in the yellow schedule is in error.

A meeting of University officials took place Monday to reassess a recently proposed policy and to reformulate another policy amenable to both students and the University. The new policy will be detailed in a letter to all students to be distributed within the next several days.

Changes in the payment policy have been under discussion for some time.

Following a report last Fall to the Board of Trustees by the University auditor, a University-level committee was formed to study possible changes or revisions to the payment policy at the Daytona Beach campus.

The committee "recognized we had reached a stage where we had somewhat of a contradictory policy stated in the catalog... If you didn't pay up front, everything was cancelled - but we also had provisions for pay-

ment of late fees," said Chancellor Eric Doten.

Doten said he requested the committee use certain criteria in developing any new payment policy. "We didn't want the 90 percent of the students that followed the rules being penalized or exploited by the 10 percent who were taking advantage of the [late payment] rules," said Doten.

See PLAN, page 9

By Gordon F. Crago

Computer students will have new curriculum options this Fall with the introduction of a new Computer Information Systems (C.I.S.) major as well as a revision of the current Computer Science with Aviation Applications (C.S.W.A.A.) degree. The programs are open to continuing students who are being encouraged to investigate them.

### Computer Information Systems

The C.I.S. program, a major in the Aviation Business Administration degree, was created to "produce students to fill the need for productive applications programmers and analysts in the business environment" according to Dean James the new program chairman for C.I.S.. James considers the C.I.S. program to be "well thought out", indicating that it "will stack up to virtually any similar program in the country."

The C.I.S. program was patterned after the Data Processing Management Association (D.P.M.A.) approved core curriculum by James in conjunction with Shirley Fedorovich, Dr. Jim Swanson, and Jim Thorne, the program's faculty. James indicated that the emphasis of the program will be "primarily COBOL", the language used in the two applications program development courses, C.I.S. 220 and 330.

James plans to require students entering the program to purchase their own IBM or compatible personal computer, a move he believes will make students "more productive". James pledged that the University is "serious about this program, serious about producing students to fit a particular niche, and that students are expected to be serious about their education." Along with the purchase of the computer, students will purchase "software such as COBOL, BASIC, and spread sheets to do all their course work." James added that additional use of computers would be integrated into the business administration core courses.

To make the computer purchase more affordable, the university is currently negotiating with IBM to provide discounts and financing to interested students. Jim Thorne, Academic Com-

See CIB, page 12

# Editorial

## The little things do make the difference

Things are often slow to evolve here at Embry-Riddle— change being a primary culprit. Sometimes, things do evolve past the committee and planning stages. It is very much a surprise to campus students. Last trimester the Avion ran an Editorial which, perhaps, described the true meaning of going to college, and life in general, for that matter. Frequently, it is the little things that make the difference.

For example, as you get closer to graduation, a disturbing trend develops: the weight and price of textbooks increases but their print size seems to decrease. The cinder block-like calculus book you begrudgingly purchased in September will become firmly anchored at home by November, having become too much of a burden to lug to class. To make this more frustrating, your required course reading often covers less than half the chapters in the book.

Another nagging problem is the lack of left-handed desks on campus. While about 17 percent of the population in the United States is left handed, there isn't one left-handed desk observable in any classroom.

This discriminatory practice makes life tough on southpaws. In some Humanities courses a volume of writing must be produced in a hurry. The coordination needed to accomplish fast left-handed writing while sitting in a right-handed desk makes coherent thinking impossible.

Seemingly insignificant problems can lead to disastrous results.

Few classrooms have those little peepholes that let those outside see in. Without the hole to check on the progress of the previous class, early-arriving students invariably wind up interrupting the class in session. This makes some teachers irritable. Irritable teachers mean grouchy teachers. Grouchy teachers seem to assign more homework — and remember those heavy textbooks.

More homework leads to bigger tests. Bigger tests mean the tests are more difficult — even harder for left-handers. Difficult tests mean course grades suffer. When grades decline, so do job offers.

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More homework leads to bigger tests. Bigger tests mean the tests are more difficult — even harder for left-handers. Difficult tests mean course grades suffer. When grades decline, so do job offers. Fewer job offers could mean accepting a less than desirable job. Working in a fast food grease pit or an un-air-conditioned Photomat booth can make your life miserable.

And all because there are no left-handed desks and no peepholes in the door.

You know, it is the little things that count.

"Classes are fine ma, but I've eaten so many frozen dinners I have chapped lips."

College Press Service



## Letters to the Editor

### Thieves Beware

To the Editor:

Over the past few weeks, I have observed and listened to some opinions about the library's tactics to stop the stealing of materials, namely, the security system. Many people believe these tactics to be an infringement on their personal rights. Well, these people are pathetic idiots.

I'm sick of these people crying about this. We have the security system because we don't want thieves to walk off with the library's materials. I'm not going to pay for the materials to be replaced because some jerk decided he would like to add some item

scared off if you don't take anything, then you're safe. All it costs you is a few seconds of your time. Is it that all of you are scared about what they might find?

I say anyone who is opposed to the security system shouldn't be allowed into the library at all because in that group are the real thieves. Let us honest people use it; the ones who don't feel the need to take things that aren't ours. After all, the library is to enhance education and the learning process—not to foster those no-value, loser misfits who think stealing is O.K. Our library is one of the best things we have on campus and I don't think anyone wants to pay to restore the shelves.

I like the library and use it often. It is a little small, but it fulfills my needs and gets the job done. It needs a strict security system to intimidate would be thieves; it makes the seem think twice about taking materials. I have no objections if anyone wants to check my things because I am not a thief.

So next time you walk through

the security system in the library, think what they're there for and what they prevent. Then maybe some of the people who don't like it will realize why it is there and why it is necessary.

Mark Lyden and Company  
Box 6930

### Thanks

To the Editor:

As most people know, A.N. Prakash and Lora Bezezinski were elected as President/Vice-President of the Student Government Association for the year 1986-1987. I would like to officially congratulate them in their accomplishment and wish them the best of luck in the next year.

Even though I will not be con-

tending in an official position of the SGA, I do plan on assisting the students by working with Lora and Kash and especially the Divisions of the SGA. The Divisions are the ones that serve the students the most by publishing the newspaper, yearbook, and putting on events for the students each year. I hope that all students begin to work together and build the unity, spirit, and pride that is necessary for our continued success.

During this campaign, there have been many concerns, rumors, and statements made about all candidates running for office. I encourage all students to talk to the candidates that are running each year so that they can make their decisions from a more informed position. I hope that all students will make the necessary steps to be involved during all elections in their individual fraternities, clubs, organizations or the Student Government Association.

Many concerns of the past administration have come out during this election that concern me.

Send THANKS page

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If you are one of these people who get angry over the fact that your things may be searched, well, it's people like you who foster thievery. What are you

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Funded by the Students of Embry-Riddle  
1986 the Avion Newspaper

editor-in-Chief  
Richard Calvert

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- Space Technology Editor: Jim Hanko
- Photo Editor: Mark Stern-Montagny
- Directions Editor: Tim Markward
- Copy Editor: Patrick W. McCarthy
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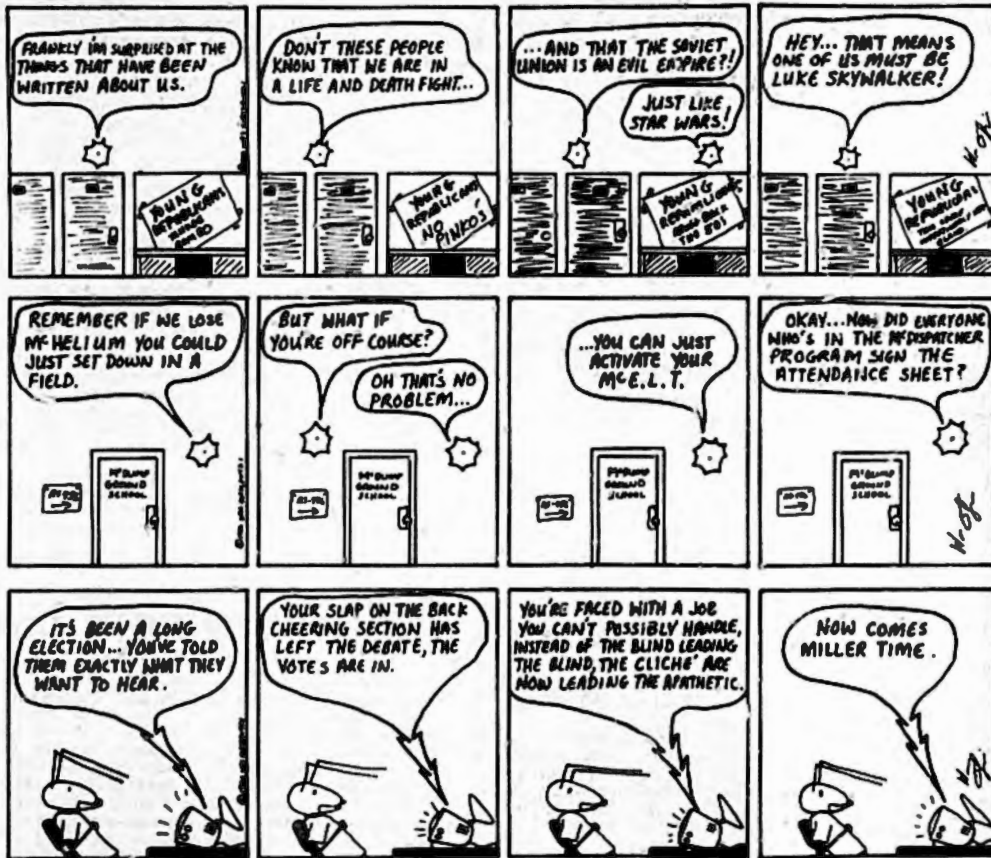
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 Richard Calvert

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This week's staff: Rob Watt, Richard Clarke, Don Tyson, Brian Nicklas, Peter Merlin, Rich Grey, Jesse Clark, John Get-

The opinions expressed in this newspaper are those of the majority of the Editorial Board, and do not necessarily represent those of the university, the staff of the Avion, or the members of the student body.

Letters appearing in the Avion do not necessarily reflect the opinion of this newspaper or its staff. Letters submitted may be edited for brevity and may be printed provided they are not lewd, obscene, or libelous. Letter writers shall confine themselves to a single topic. All letters must be accompanied by the signature of the writer. Names may be withheld or request at the discretion of the Editor.

The Avion Editorial Board members are: Richard Calvert, Gordon F. Crago, James Banke, Tim Van Milligan, Mark Stern-Montagny, Steve Cagle, and Tim Markwald.

The Avion is an Associated Press member newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisers, and the Associated Collegiate Press.

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Correspondence may be addressed to: The Avion, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32014. Phone (904) 252-5561 Ext. 1082



# Graduate co-ops into NASA position

By Brian Nicholas  
Avion Staff Reporter

Co-op positions vary in scope, and what could be the "best" position is often argued. Certainly, Bill Spenny and Terry Tri have held a co-op position most would envy.

Working at the National Aeronautics and Space Administration Johnson Space Center in Houston, Texas, the two gentlemen were involved in NASA's Crew Systems Division working on space suits.

The co-op paid off, as Tri (a December 1985 graduate) is now working in Houston as a member of the NASA staff redesigning the space suit.

Terry also expressed his feel-

ings on the equipment used in the AE program here by stating that facilities like the wind tunnel lab were "adequate" considering the size of the University. He added that he would like to see more Aerospace Engineering courses as the class he had taken in Space Mechanics helped him land the NASA co-op at NASA was in the Operations Division of the Flight Dynamics section at the

so after his stay with Flight Dynamics, he went to the Crew Systems Division. Terry says that his first co-op instilled him with a sense of awe, while on his second he gained a real appreciation for engineers. "While working with twenty people in Flight Dynamics, his real time communications skills were very important. He said that he was called upon to make immediate judgements as situa-

tions arose, working with the staff and an Operations Manager. Tri's second co-op was, he felt, "the best." He explained this by saying that "I was working with a lot of people who were experts on something that virtually no one else in the free world was doing...Crew Systems relied more on your creative abilities, which is why I ultimately chose that for my permanent position."

When interviewed shortly after his December graduation (at which he was awarded the Daytona Beach James Prevost Award), Tri thought that upon his return to the Johnson Space Center that he would be working on further refining the space suit gloves.

He felt that eventually, the suits would be used with a combination of gloves, electro-aids and complete robotics. But right at present, Tri says, gloves are the prime concern.

Manual dexterity will be very important to astronauts during the assembly of the space station and other large space structures, and right now fatigue and numbness are a big factor in using the glove.

Terry says the only reason he could foresee leaving NASA would be if the private sector developed a need for their own suit. He is quick to mention that he doesn't think this will happen, at least not until way beyond the construction of the space station.

Tri enjoyed both positions he held with NASA and said that "My decision to co-op was the best decision of my academic career."



Terry Tri (right) and Bill Spenny wear present and future space suits as part of their work in Houston with NASA.

**"...I was working with a group of experts on something that no one else was doing"**

Johnson Space Center. He worked on orbit and rendezvous planning for current and future shuttle missions. Tri explained that the future mission planning was for missions that were to take place up to one year away. During the current or "real time" missions, Terry held a console position at Mission Control.

Tri wanted one Co-op in the operational side of engineering and one in the "hands on" side,

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## SGA plans student spirit week for April

By Geoff Hunt  
SGA Student Representative

If you haven't heard about Spirit Week yet then read on! What started out as just an idea has developed into a full week of fun, food, games, parties, information, contests and a lot of super prizes!

We want all of ERAU's students to join us in preparing for our 60th Anniversary and Skyfest by participating in Spirit Week. We promise it won't take much effort and you might even enjoy it.

So far, we have seven days of scheduled activities, each with a different theme, and all with the

Eagle's Spirit in mind. Just look at what's ahead:

**Friday, April 4**

It-100 will be on campus in their Coca-Cola Van doing a live remote to help us kick off Spirit Week. Their DJ will be giving away visors, clothes, T-shirts and more. Who knows, maybe you'll find the one he decides to interview live and all of Daytona will hear your clever words.

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A Seascope Cruise

Two parasailing rides

A Bikini from the Bikini Company

A weekend at the Hilton

A dinner cruise for two on the new *Delta Queen*

Dinners for two at any of Daytona's finest eateries

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Terry Tri (right) and Bill Spenny wear present and future space suits as part of their work in Houston with NASA.

## Beech Corp. offers seats to nation's college pilots

By Steve Gagle

The Beech Aircraft Corporation will be awarding four pilot training scholarships to seniors graduating from four-year institutions. Candidates will be competing nationally for the King Air turboprop training course to be given at the Beechcraft Training Center in Wichita, Kansas.

The training includes the use of cockpit procedures trainers and full-motion simulators. Each scholarship is valued at approximately \$6,000.

Applicants must be enrolled in an accredited four-year institution, have a cumulative G.P.A.

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of 3.0 or above, graduate no later than summer 1986, and possess a Commercial Certificate with Instrument and Multiengine ratings at the time of application. Additionally, participation in extracurricular activities and recognition and awards will play a major role in the selection of finalists.

Any students interested in applying should contact Frank Wenzel in H-106 or at ext. 1311. The deadline for applications is March 31, 1986.

The ten finalists will be notified and asked to interview with Beechcraft during the 1986 NIA SAFECON, April 16-19, 1986, at Waco, Texas.

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When interviewed shortly after his December graduation (at which he was awarded the Daytona Beach James Prevost Award), Tri thought that upon his return to the Johnson Space Center that he would be working on further refining the space suit gloves.

## SGA plans student spirit week for April

By Geoff Hunt  
SGA Student Representative

If you haven't heard about Spirit Week yet then read on! What started out as just an idea has developed into a full week of fun, food, games, parties, information, contests and a lot of super prizes!

We want all of ERAU's students to join us in preparing for our 60th Anniversary and Skyfest by participating in Spirit Week. We promise it won't take much effort and you might even enjoy it.

So far, we have seven days of scheduled activities, each with a different theme, and all with the

Eagle's Spirit in mind. Just look at what's ahead:

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## Presidential Air purchases new 737-200 jetliners from Boeing

Presidential Airways

WASHINGTON) — Presidential Airways and the Boeing Commercial Airplane Company announced that Presidential has agreed to purchase three new Boeing 737-200 jetliners. Presidential also took an option for two additional Boeing 737-200 or 737-300 aircraft. Delivery of the first two aircraft is scheduled for the summer of 1988. The optional aircraft would be delivered during mid-1988.

anged will enable Presidential to purchase these new aircraft while continuing to maintain its low cost structure.

Presidential Airways President Harold J. Pareti stated, "This agreement with Boeing culminates months of negotiation and is an important step in meeting Presidential's long-term strategy of integrating both new and used Boeing 737 aircraft into its fleet. We are extremely pleased with Boeing's willingness to

## M-1 tank: machine prone to mishaps

By Jack Anderson  
and Joseph Spear

WASHINGTON — The Army's safety experts must sometimes get the feeling they're cooking up bad news for Beebe Bailey.

Consider these mishaps recorded between 1981 and 1985 concerning the new Abrams M1 tank. It's easy to imagine General Halfrack looking dazed and whimpering, "Now what?" as he views the calamities described in the reports: "For example: —The driver was instructed to turn left by the tank commander; however, he turned

right, causing the M-1 tank to go over a 20 foot embankment. The tank rolled over twice, landing on its track."

"In order for photographers to take some pictures of the Abrams M1 tank, the tank driver hit his M-1 a little too close to the edge of a lake. "The left side of the tank slid into the lake, submerging approximately one-half of the vehicle." The photographers were presumably delighted.

An M-1 driver tooling down an Autobahn in West Germany misjudged his tank's width and sidestepped a bus.

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The braking system isn't always up to the herculean job of keeping the huge M-1 stationary when it's parked. And since it takes "a significant period of time" to restart the engine, there's little the driver can do if the tank starts to slide downhill. One driver could only leap for his life. "The vehicle continued down a very forested hill through a fence until it crashed into a building in the ammo holding area. The building contained assorted types of 155mm projectiles." It's unclear from the report whether the ammo went

See M-1, page 5

**CORRENTOS**

**DAILY SPECIALS**

MONDAY: BAKED ZITI	.....\$3.10
TUESDAY: PIZZA	.....50' OFF
WEDNESDAY: BAKED LASAGNA	.....\$3.59
THURSDAY: SPAGHETTI	.....\$2.39
FRIDAY: RAVIOLI	.....\$3.10
SATURDAY: MEAT RAVIOLI	.....\$3.10

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Beechcraft Training Center in Wichita, Kansas.  
The training includes the use of cockpit procedures trainers and full-motion simulators. Each scholarship is valued at approximately \$6,000.  
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See AIR, page 5

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— "The driver was instructed to turn left by the tank commander; however, he turned

driven by a hot rodder "spun out" on an Autobahn and ripped up a section of guardrail before it was brought under control.  
— The M-1 driver's seat is built along the lines of a reclining lounge chair, to accommodate the tank's admirably low profile. But it's evidently too comfortable. The driver is almost lying on his back, and after long periods on the road, drivers often fall asleep at the wheel and are jarred awake only when the vehicle collides with a tree or a ditch.  
Not all the accidents reviewed by our associate Donald Goldberg were cause for laughter.

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## Alumnus thrills crowd in Lakeland

By Brian Nicklas  
Avon Staff Historian

**LAKELAND** — One of the many highpoints of last week's Sun'n Fun Fly-in was the appearance of Ed Johnson and the Bud Light BD-5J Microjet Friday and Saturday.

Johnson, a 1970 Air Science Alumnus of Embry-Riddle, has been flying the Beech jet on the airshow circuit for the last eight years.

During his stay at ERAU, Johnson taught multi-engine flight in the Beech 18 to many, including current instructor Mason Aldrich. Also one of the founders

of the Skydiving Club, Johnson reports that, at that time, the club jumped at Mid-Florida Airport in Leesville.

Three months after graduation from ERAU, Johnson entered the Air Force. Upon finishing Air Force training, he found himself in Vietnam flying F-4 Phantom II's.

During his stay in Southeast Asia, Johnson flew the F-4C, D and E versions of the Phantom, and continued in the aircraft on his return to the States. Johnson was assigned to Eglin AFB in Florida's panhandle, and from there went to Patrick AFB flying the North American OV-10 Bron-

co. Johnson left active duty, but maintained his military connection by joining the Florida Air National Guard where he flew the Convair F-106 Delta Dart out of Jacksonville International Airport.

When not flying the Microjet at airshows across the country, Johnson flies the Douglas DC-9 as a pilot for Republic Airlines. He flies from Memphis, Tenn., where he also bases the Beech. Operating the tiny jet for Astro Flight, Inc., Johnson narrates portions of the show from the cockpit. As the narration progresses, he talks about his begin-

ings at Embry-Riddle, and is eager to do what he can for the University. Johnson likes to say his show runs the spectrum of speed, from "minus 10 knots up to 300, and all in a few seconds." This wide speed range occurs during his talkride in the Beech, where, after a sharp climb, the nose and tail of the jet swap ends in a heartbeat. All the maneuvers that Johnson performs are just as stunning, and Johnson would love to perform them. Johnson added that he would like to show the routine at Skyfest, but has yet to receive an invitation.



(Above) Ed Johnson has just peaked at the top of his climb before beginning his talkride in his BD-5J Microjet. (Left) This Swift was one of many classic aircraft that reflected the hours of care that their owners had spent on restoration. (Below) One of Astro Flight's crew taxis the Beech past an appreciative crowd after last Saturday's performance.



## Extender celebrates five years of service



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McDonnell Aircraft Co.

**LONG BEACH, Calif.** — March 17 was the fifth anniversary of duty with the United States Air Force for the McDonnell Douglas KC-10 advanced tanker/cargo aircraft. The first KC-10 was delivered to the Strategic Air Command's Eighth Air Force on March 17, 1981, and performed an aerial refueling while on its way to Barksdale Air Force Base near Shreveport, La.

established a reputation as the most reliable in the Air Force.

Two other KC-10 bases have been established in addition to Barksdale, March AFB near Riverside, Calif., and Seymour Johnson AFB at Goldsboro, N.C. Capable of both "boom" and "probe and drogue" refueling, the "Extender" has refueled every type of air-refuelable aircraft in the Air Force inventory, as well as U.S. Navy and Marine Corps aircraft.

Current Air Force plans call for a total of 60 KC-10s in the inventory, with the last to be delivered in late 1987.

Since that first delivery, 40 more KC-10s have joined the Air Force fleet, and the plane has



## Yeager to pilot pace car in Indy classic

By Diane M. Balk  
Associated Press

**INDIANAPOLIS, Ind.** — Chuck Yeager, the first man to fly faster than the speed of sound, is looking forward to piloting the pace car for the 1986 Indianapolis 500.

"What would be more natural than to have me drive the pace car?" said Yeager, 63, who broke the speed of sound in 1947, flew twice the speed of sound in 1953, and who shattered the coast-to-coast record for a corporate jet last month.

"It's fun to fly airplanes if there's a challenge. I don't plan my career. When something comes along, I grab it," the retired general said Tuesday.

Yeager said driving the 1986 Corvette pace car in the May 25 race was his idea because he owns a 1985 Corvette, and has been doing commercials for AC-Delco Division of General Motors for four years.

"It's going to be interesting. I've never been on the Speedway out there in my life. I've watched many of the races on television," said Yeager, a West Virginia native who now lives in Califor-

nia. "I'm looking forward to it."

Yeager was in Indianapolis Monday as Chevrolet officials presented a pace car to the Indianapolis Motor Speedway for display in its Automotive Hall of Fame Museum.

Yeager, who hobnobbed Monday night with racers such as Rick Mears, Johnny Rutherford, and Al Unser Jr., said that drivers and pilots have a common respect for "anybody that really feeds around with high tech equipment. You admire that — guys that know how to handle machinery."

Yeager also appeared on television Tuesday from Indianapolis, where he discussed receipt of the 1986 Horatio Alger Award honoring those who have succeeded despite being born without wealth or other advantages.

Yeager said the award, given by the Horatio Alger Association of Distinguished Americans to nine people this year, was symbolic of "people that had to work for a living in a free enterprise system. Anyone can succeed if they work at it."

In an interview after his television appearance, Yeager said that he doesn't expect another space shuttle flight for six to 12 months.

Yeager is one of the members of the 12-person panel President Reagan appointed to investigate the Jan. 28 fatal flight of Challenger.

"I don't speculate" about the cause of the accident, Yeager said. "I'll wait till the accident board comes out with its findings."

However, Yeager said there are indications that the O-rings might have been a problem area, and "indications of weak areas in the management of NASA and lack of good communications."

"All of those discrepancies will be fixed before it flies," he said.

Yeager, who mostly rides rather than being his own pilot between appearances, said he's unafraid of flying commercially despite the rash of 1985 accidents and allegations of inadequate maintenance. "The ingredients of an accident occur when you press the schedule so heavy that you don't have time to do preventative

maintenance," he said.

But Yeager said he didn't think maintenance was much of a problem "as long as the FAA is strong enough to get their (the airline's) attention."

"The guys flying the airplane like their necks as well as I like mine. They're going to take care of it. The system is very good. The guys are well trained."

Yeager, trained as a mechanic who became an Air Force pilot, a general, and author, said "my autobiography exceeded anything beyond my expectations."

The book began as an oral history for the Air Force. Yeager believes the book has done well "probably because it's a documentary" and it's frank.

"As a military guy, what I did all through my career, it was my duty," Yeager said. "To me, flying is a job."

Yeager said he's been approached about a political career but he's not interested. "I'd have to change my whole lifestyle" and probably give up flying.

He also doubts he'd make a good politician. "I'd probably get everybody mad at me. As long as I can pass a physical I'll fly airplanes."



Chuck Yeager

NASA photo

# ERAU Initiates plan to accommodate ARSA

By Jeff Guzzati  
Avion Staff Reporter

[Editor's Note: This article is the second in a two-part series examining the effect of the Airport Radar Service Area (ARSA) that was recently implemented at Daytona Beach Regional Airport.]

Two weeks ago, the FAA deemed that an ARSA (Airport Radar Service Area) replace the TRSA (Terminal Radar Service Area). The ERAU Flight Department implemented several new departure procedures to conform to the different dimensions and rules of the ARSA (Avion, March 19).

### Potential problems

While it is too early to determine the impact of the ARSA on ERAU flight operations, some departure and arrival delays are expected to occur.

Pilots must now continue to be vectored for an additional five minutes before departure because the base of the second layer of controlled airspace is 1200 feet instead of the TRSA's 800-foot level. This could result in several extra minutes of flying time before radar service is terminated.

"We don't anticipate too many problems," commented Bill

Vorhees, Acting Area Supervisor of the Daytona Beach Control Tower. Vorhees went on to explain that the amount of time delay for the new departures will be minimal, about three or four minutes.

### Practice area squeezed

Another potential problem with the ARSA is the large decrease in the amount of usable practice area space. Because the base of the ARSA extends outward in a ten-mile radius, operations such as slow flight and stalls must be performed outside of this area in order to avoid the mandatory ARSA participation. This could produce a potential congestion problem.

"We're considering the possible extension of the practice area north," stated Paul McDuffee, Chairman of the Flight Technology Department. "We just don't know right now."

McDuffee went on to explain that during meetings he held with officials of the ERAU Flight Department and the Daytona Tower to voice pilot concerns regarding the ARSA as they discuss during the next three months.

### Frequency Congestion

Another concern of some ERAU pilots is the greater poten-

tial of confusion and delays while approaching Daytona Beach for landing. All aircraft, not just ERAU planes, must now acquire positive radar contact with approach control before penetrating the 10-mile outer limit of the ARSA. If traffic is congested around the area, delays could be lengthy.

"I don't think it's really going to change our workload too much," responded Vorhees. "After we're in all out, I think its going to be as easy or easier than the TRSA."

The controller went on to explain that the ARSA was designed to increase safety, just as the TRSA had when it was implemented at Daytona in 1978. Vorhees would rather have more people on the frequency than a disorganized traffic situation.

### Smooth transition

According to McDuffee, the transition period thus far has gone smoothly. "I haven't heard any complaints yet [from ERAU flight instructors] but it's only been two days."

All ERAU flight instructors were given a week's notice to sit down with their students and explain the ARSA procedures.

"I think Embrey-Riddle handled it well," commented Joy Finnegan, an ERAU Flight Supervisor and instructor. "Some instructors gave their students mugs-orals. One guy even reserved a classroom and talked to all his students at once. I don't think there's going to be any major problems [with the ARSA]," she added.

### Feedback welcomed

The ARSA is certainly here to stay, but according to both McDuffee and Vorhees modifications to it's dimensions and procedures could be made if the situation warrants it.

Weekly meetings are scheduled between the ERAU Flight Department and the Daytona Tower over the next 90 days. During that time, input from pilots concerning safety and delays are welcomed so that appropriate action can be taken.

"Just have patience and understanding," responded McDuffee when asked for some words of advice to ERAU students. "Make sure that you are constantly aware of your location in relation to the ARSA, and carefully monitor the transmissions from the controllers."

# M-1

(continued from page 3)

up from the impact. One frequent mishap involves the knee-level switch opening and closing the ammunition compartment. The switch leaves the loader's hands free, but can cause severe bruises if it is activated accidentally during a particularly jolting fire. And at least one loader unwittingly tried to stop the door from closing automatically by grabbing it. "The weight of the door was too much and it severed the fingers prior to stopping," the safety report noted. So far at least, the M-1 named

the path of an oncoming M-1. UNDER THE DOMMIE: President Reagan's foreign policy plichmen have been scouring Capital Hill in search of support for their \$100 million aid plan for the Nicaraguan contras, and they probably thought they had a sympathetic ear when they spoke to Sen. Edward Zorinsky. The Nebraska Democrat is unpredictable but generally conservative, and he listened politely to the White House appeal. His response, however, was not what the Reagan salesman wanted to hear. Said Zorinsky: "Gentlemen, you

ing to deprive Americans of their right to eat derby loafers. The horseflesh bucksters told us they want to sell their meat to military bases as a first step to mass marketing. They argue that horse meat is cheaper and healthier than beef because it is leaner. They also say its tastier. We'll take their word on that.

TRAILS OF DECADENCIE: Over the past seven years, Iran's Ayatollah Khomeini and his fanatic followers have gone all out to purge their country of Western influence, but some

more than a decade, video display terminals have stirred controversy over their potential health hazards. The National Institute for Occupational Safety and Health has proposed a study to settle the matter but the White House Budget Office has blocked it on the grounds it is flawed. Our sources say it's more likely that the \$360,000 cost upset the budget critics.

NOISY NEIGHBORHOOD: The Navy has resumed practice bombing at its Fallon, Nev., air station, and some of the residents have taken their earplugs out of

# Whew! Term winds down for graduates

## Plan ahead for busy commencement week

By Bill Krebs and Brian Finnegan  
Senior Class Correspondents

The Senior Class is diligently working toward raising money for the pairing of the 51-L Space Shuttle crew. It has commissioned with the L5 Aerospace Society. We have currently raised over \$300 (total over \$600 goal).

Doughnuts are currently being sold every morning in the U.C. for 35 cents and Class of '86 T-Shirts are available for \$6. Get your shirt while they last and support your class project.

The Council's concession booths at the Ocean Center are proving successful and have contributed more than \$400 to our account. However, we will soon need another group to assume our duties and collect the spoils as we will hopefully be assuming more reliable employment. If you know of an organization that might be interested, contact Student Activities.

On April 6, the Senior Class will sponsor a Seascapes cruise. Tickets may be purchased in the U.C. for the reduced student price of \$44. The deadline to purchase tickets is March 27. Transportation from a local beach hotel will be furnished as part of the ticket price. Don't delay, sign up today!

Jarrold's Clothiers in the Volusia Mall will hold a Career Dressing Seminar on Thursday, March 27. The presentation will last about 40 minutes and will begin at 7:30 p.m. The store is offering Riddle grade a free tie worth \$27.50 with the purchase of a suit. Wine and cheese and refreshments will be served. Are you in tune with your executive clothing needs? Stop in and ask a few questions.

Got your calendar handy? Be sure you've got these dates in red. April 7 at 8 p.m. in the U.C. Center — The last, and most important meeting for all graduates. Cap and gown info will be imparted and the Outstanding Faculty Member vote will be taken.

April 24 at Pinky's — The Class Party! There will be a hayride from 8 to 7 and the bar will be open from 7 to 10. Stay tuned to more details.

April 25 in the University Center — The Graduation Social. It's a semi-formal affair to recognize our outstanding faculty and an opportunity to show your family off to your friends and faculty. 8 p.m.

April 26-Saturday-Sleep late, make a big breakfast, take a swim and remember you are now two hours late for the graduation ceremonies. Just kidding. Be at the Ocean Center by 9 a.m. The festivities kick off at 10:30. After the Commencement Exercises, there will be an open house at the University and a light sm. It will be served in the U.C.

Don't blow it between now and then. Take five and stay alive.

# THANKS

(continued from page 2)

I urge all individuals that have a concern about any administration in SGA, to first bring that concern to the SGA. If you can't explain the situation and that all students understand what has happened, I also hope that students begin looking at the

good things that happen instead of just the bad.

Again, thanks for your support over the last year and I look forward to your support in the fall of '89.

Jeff A. Kohlman  
SGA Vice-President

# AIR

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# AIR

(continued from page 3)

work closely with Presidential over the long term of this contract."

Pareti noted that the Boeing

737-200 is the same aircraft currently in Presidential's fleet and, as a result, would ensure consistent low operating costs and desirable passenger capacity.

closing the ammunition compartment. The switch leaves the loader's hands free, but can cause severe bruises if it is activated accidentally during a particularly jolting fire. And at least one loader unwittingly tried to stop the door from closing automatically by grabbing it. "The weight of the door was too much and it severed the fingers prior to stopping," the safety report noted. So far at least, the M-1 named

Capital Hill in search of support for their \$100 million aid plan for the Nicaraguan contras, and they probably thought they had a sympathetic ear when they spoke to Sen. Edward Zorinsky. The Nebraska Democrat is unpredictable but generally conservative, and he listened politely to the White House appeal. His response, however, was not what the Reagan salesman wanted to hear. Said Zorinsky: "Gentlemen, you

NAGGING SUSPICIONS: Marketers of horse meat suspect that members of Congress from beef producing states are conspir-

ing to deprive Americans of their right to eat derby loafers. The horseflesh bucksters told us they want to sell their meat to military bases as a first step to mass marketing. They argue that horse meat is cheaper and healthier than beef because it is leaner. They also say its tastier. We'll take their word on that.

TRAILS OF DECADENCIE: Over the past seven years, Iran's Ayatollah Khomeini and his fanatic followers have gone all out to purge their country of Western influence, but some strange vestiges of heathenism remain. In downtown Tehran, for example, there are fast food outlets bearing the McDonald's and Kentucky Fried Chicken logos. They are now run by Iranians.

TERMINAL DEBATE: For

stitute for Occupational Safety and Health has proposed a study to settle the matter but the White House Budget Office has blocked it on the grounds it is flawed. Our sources say it's more likely that the \$360,000 cost upset the budget critics.

NOISY NEIGHBORHOOD: The Navy has resumed practice bombing at its Fallon, Nev., air station, and some of the residents have taken their earplugs out of the facility.


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**Watch the Avion for details**



# Officials plan for 'Challenger II'

Rockwell/NASA team lists items needed for support of new orbiter

By Paul Rezer  
Associated Press

HOUSTON, Texas — Officials at the Johnson Space Center and at Rockwell International are making tentative plans to build a new space shuttle to replace the destroyed Challenger, and most believe it will be the pride of the fleet — the safest, "cleanest" spacecraft ever built.

Congress has not approved the construction of a new orbiter, but experts have estimated the cost at about \$2.8 billion and the time it would take to build at about three years. And they have suggested a name — Challenger II.

"That's the one I like," said Richard Colonna, manager of the space shuttle projects office at the Johnson Space Center.

Colonna said no firm plans have been made as yet, but preliminary, informal studies have shown that assembly lines to start building a new shuttle could be organized quickly.

"The first thing we would do is to assess what we are going to need and what is available," he said. "Those parts that are short are the ones we would move first."

### Spare parts

NASA was in the process of building up spare parts for the four-orbiter fleet of shuttles when Challenger exploded just after its launch Jan. 28. Many of those spare parts could be used in the construction of new orbiter, but the parts, in turn, would have to be replaced to keep the fleet flying.

Colonna said building a new shuttle would require a delicate balancing act between the parts demands of the assembly line and the needs of shuttles that are flying. Flights are suspended now, but are expected to resume before a new shuttle could be completed.

"The needs of the field versus those of the field would have to be balanced over the next three years. The flight program always takes precedence," he said.

Colonna said that within two months after getting the authorization to build a new orbiter, Rockwell International, the spacecraft's prime contractor, would start hiring new workers. Rockwell would slowly add 1,700 to 2,000 new employees, peaking about two years after construction began.

Subcontractors also may have to add new workers, but Colonna said he had no estimate of those numbers.

"I've got 131 suppliers, or subcontractors, and to my knowledge all of those are capable of coming right back up with a short amount of lead time," he said.

### Construction schedule

Within three and half years after getting the go-ahead, Colonna said the new shuttle would be ready to launch.

Though it would look like its sister ships, there would be important differences.

The new shuttle, Colonna said, would have all of the latest innovations, with a heavy emphasis on safety.

Johnson Space Center engineers are reviewing a list of almost 750 "criticality I" items, those that must work for the shuttle to operate safely, and changes will be made where it is indicated. For the existing shuttles, the changes will be added on. For the new shuttle, the changes will be part of the assembly.

Colonna said the new shuttle would have improved general purpose computers, the five mechanical brains that control the craft. There also would be improved electrical power cells, a new steering system, a new braking system, and even a new space toilet. In the cockpit, there would

be enhanced avionics to make flying the craft easier.

Included in the cost of the new orbiter would be the construction of key parts that were lost in the Challenger explosion.

NASA had only three flight-qualified robot arms, the cargo bay crane that is operated remotely from inside the cockpit. One of those arms was lost on Challenger and will have to be replaced. The originals cost \$14.2 million in 1982 dollars.

### Itemized losses

Also lost on Challenger were two space suits, the pressurized garments used in space walks. One of the lost suits was an extra large, the only one that size in the NASA inventory. This will have to be replaced since some of NASA's most experienced spacewalkers require that size. The new suits cost about \$2.15 million each.

Cost of the new orbiter costs would include about 10 months of pre-flight testing after it was delivered to the Kennedy Space Center.

NASA in the past seldom has let any spacecraft parts be wasted. Enterprise, the shuttle craft used only for drop tests during the development of the spacecraft, was gutted of parts after the tests were completed. The Enterprise sent to a museum was just a hollow "shell of the craft that once dropped from the back of a jetliner and glided to Earth during development tests.

But Colonna said there is little chance of salvaging anything useful from Challenger, "and even if there was, nobody would ever agree."

The surviving fleet of shuttle craft, Columbia, Discovery and Atlantis, all appear identical, but there are subtle differences. Columbia, the first to orbit, is the heaviest, and Atlantis, the last to be built, is the lightest and most

versatile.

Discovery and Atlantis can be launched into a polar orbit from Vandenberg Air Force Base, Calif., but the heavier Columbia can only be sent into a west-east orbit from the Kennedy Space Center in Florida. Atlantis now is the only shuttle capable of launching the liquid-fuel Centaur rockets that are scheduled to be used to send spacecraft on voyages of solar system exploration.

Columbia is fitted primarily to fly the spacial, an orbiting laboratory carried in the cargo bay.

A new orbiter would incorporate the versatility of Atlantis, and the best of new technology, Colonna said.

"I would anticipate that we would build a duplicate of Atlantis with only minor differences," he said. "And the differences would be anything to make it better. It will probably be the cleanest vehicle. I think it will be the best."

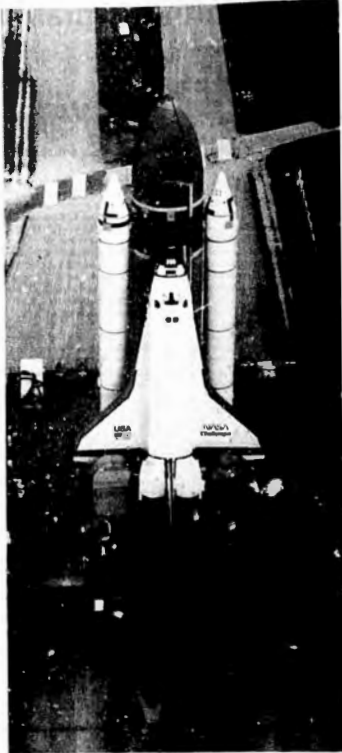
### Critics speak

Critics, however, have said that no matter how a new shuttle is modified, it still will be based on technology of the 1970s, when the shuttle concept was developed. Some have suggested that instead of building another shuttle, the money could be spent more usefully for development of a new generation of spacecraft.

Furthermore, some experts have told Congress that the shuttle will never be operated economically.

Engineers at Johnson have estimated that a totally new spacecraft would take 15 years and many more billions to develop.

They also say that a fourth orbiter is needed to meet the demand for launch services, and to build the nation's space station, a permanent orbiting fixture set for operation in the mid-1990s.



## Challenger flight tapes found, analyzed for additional data

Associated Press  
HUNTSVILLE, Ala. — Workers at Marshall Space Flight Center are cleaning three tape recorders recovered from the wreckage of the space shuttle Challenger in hopes they will yield clues to the cause of the disaster.

The operational recorder and modular auxiliary data systems were brought to Huntsville this week after being recovered from their salt-water soaking off the coast of Florida.

A spokesman at the Johnson Space Center in Houston, Steve Nesbitt, said investigators will

look for any additional information recorded but not transmitted to the ground in the fraction of a second before the shuttle exploded on Jan. 28.

"I don't think it would be that much," he said. "If anything different occurred, it would happen in the space of a second."

The operational recorder stores shuttle telemetry data during launch and air-ground voice channels. The other recorder stores high-fidelity vehicle data for postflight structural and vehicle dynamic response evaluation.

The cleaning process, developed at Marshall in 1982 and successful in treating solid-

fuel rocket booster recorders submerged in sea water, is expected to take two weeks.

A Marshall spokesman said Friday that the magnetic recording tapes are cleaned for four to six hours and then dried in a vacuum chamber for 30 hours under varying temperatures and pressures. The tapes also are conditioned in a humidity chamber for 30 hours so they can be handled.

The tapes will be sent to the recorder manufacturer, Odetics Inc. and Datatape, for extraction of the data and then be shipped to Johnson Space Center.

ATLAS/CEAUR	DELTA
May 1 Delta 178	Complex 17, Pad A
May 22 AC-66	Complex 36, Pad B
Aug. 14 Delta 180	Complex 17, Pad B
Oct. 9 Delta 179	Complex 17, Pad A
Nov. 8 AC-67	Complex 36, Pad B

## Public hearing Friday

Computer-enhanced film confirms booster leak

By Harry F. Rosenthal  
Associated Press

WASHINGTON, D.C. — NASA experts ran a riveting movie Friday for the Challenger investigating commission showing, in dramatic frames a few thousandths of a second apart, the flame from a booster rocket leak triggering the explosion that cost seven lives.

One NASA official said "busy winds" buffeting the shuttle high over Florida may have helped cause the flame leak, by reopening a booster rocket seal which apparently was damaged on launch but had since closed. The experts said the flame forged a 45-degree angled hole in the booster rocket.

"We've looked at the hearing shape, the result from that type of flame coming out," said Wayne Littles, after the 14.5-minute, computer-enhanced film showed flame from the booster shooting for about seven seconds toward tank contains volatile liquid hydrogen and liquid oxygen fuel.

craft. There also would be improved electrical power cells, the five mechanical brains that control the craft. There also would be improved electrical power cells, a new steering system, and even a new space toilet. In the cockpit, there would

be enhanced avionics to make flying the craft easier. Included in the cost of the new orbiter would be the construction of key parts that were lost in the Challenger explosion.

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Cost of the new orbiter costs would include about 10 months of pre-flight testing after it was delivered to the Kennedy Space Center. NASA in the past seldom has let any spacecraft parts be wasted. Enterprise, the shuttle craft used only for drop tests during the development of the spacecraft, was gutted of parts after the tests were completed. The Enterprise sent to a museum was just a hollow "shell of the craft that once dropped from the back of a jetliner and glided to Earth during development tests.

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ites, associate director for engineering at NASA's Marshall Space Flight Center in Huntsville, Ala. "You could burn a hole in that tank in a couple of seconds."

Like all Friday's witnesses, Littles testified that tests and analysis during the last two weeks have ruled out all potential causes other than a failed seal in the aft portion of the rigid solid booster rocket.

"I believe we have eliminated all the other possibilities," he said, adding that the remaining theories "all deal with the joint."

A commission source said that the panel intends to recommend that the joint be redesigned, even if the exact way in which it failed cannot be pinpointed. NASA officials have said the shuttle will not fly again until joint problems are resolved.

After a review of the three-year history of problems with the joint, commission chairman William F. Rogers noted that "some of the people who made the decision to launch (Challenger) said they were not familiar with the problem."

Littles responded: "I did not know those problems have been revealed in flight readiness reviews" at-

tended by launch decision-makers. "I can't imagine it was not known."

Failure of the external fuel tank was one of the "scenarios" ruled out, Littles said.

"We conclude that it's probable that the tank from the solid rocket motor initiated the tank failure, rather than vice versa," he told the commission.

Dan Germany, head of NASA's accident photo analysis team, said in answer to a question by commission member Albert Wheelon that cold weather on launch morning caused the failure of 11 other cameras. Among the failed cameras were two which Germany conceded "would have provided an excellent view of the area in question."

Germany's aide, Charles Stevenson, said, "We think cold weather probably contributed to film breakage we have on the two critical cameras."

The temperature overnight on launch day was 24 degrees, and cold is suspected of having somehow caused the booster rocket team to fail.

Marshall engineer Harold

## Canada signs agreement

Northern neighbor to work on US space station

National Aeronautics and Space Administration

WASHINGTON, D.C. — The National Aeronautics and Space Administration has agreed to a proposal by the Ministry of State for Science and Technology of Canada to permit preliminary design of a Mobile Servicing Center during the remaining phase of the Space Station definition and preliminary design study (Phase B).

Canadian Prime Minister Brian Mulroney announced Canada's decision to proceed with Space Station participation March 18 during a visit to Washington, D.C. to meet with President Reagan.

The Mobile Servicing Center would be a multi-purpose structure equipped with manipulator arms that would be used to help assemble and maintain the Space Station, as well as help upkeep instruments and experiments mounted on the Station's framework.

The agreement between NASA Acting Administrator Dr. William Graham and Canadian

Minister of State for Science and Technology Mr. Frank Oberle marks an important milestone in the process of defining the function and content of hardware for the Space Station that could be provided by international partners.

The Mobile Servicing Center would consist of a base structure with accommodations for payloads, orbital replacement units, utilities and thermal control. Included with this structure would be the Space Station Remote Manipulator System, end-effectors and servicing tools, and special-purpose dextrous manipulators.

As an adjunct to the design of a Mobile Servicing Center, Canada also will perform preliminary design on a fixed servicing site which could be used for working on attached payloads and for storing the spare parts carried on the Mobile Servicing Center.

NASA is conducting preliminary design of hardware for servicing sites on the Space Station. NASA is also conducting preliminary design of a flight

telebottoic system which employ a dextrous robotic device for working on spacecraft brought to the Station, or for in-situ servicing, repair and refurbishment of remote spacecraft when used as the "smart front-end" of an Orbital Manufacturing System.

This agreement covers design work during the remainder of the Phase B period, which extends through January 1987. A formal decision by Canada to proceed with the development, operation and utilization of the Space Station will be subject to successful completion of Phase B activities, and the satisfactory negotiation of an arrangement for cooperation, and to the availability of funds.

NASA expects to complete the definition portion of the Phase B effort in the next few weeks. This will lead to the selection of a baseline configuration for the permanently manned Space Station, which will guide preliminary design activities for the remainder of the Phase B program.

Space Station development is scheduled to begin when used and lead to an initial orbiting capability by 1994.

# NASA telescope looks on Halley's comet close pass

National Aeronautics and Space Administration

NASA's International Ultraviolet Explorer (IUE) orbiting telescope conducted complementary observations of Comet Halley during the recent encounters of the comet by Soviet, European, and Japanese spacecraft.

The orbiting observatory, managed and operated by NASA's Goddard Space Flight Center, Greenbelt, Md., observed Halley as the Soviet Vega 2 spacecraft approached to within 5,000 miles of the comet on March 9. The previous day, the Japanese Suisei probe flew within 93,205 miles of the comet's nucleus. The IUE also viewed the comet as the European Space Agency's (ESA) Giotto spacecraft made its 310-mile pass of the nucleus, on March 13.

The recent observations of Halley by the ultraviolet telescope are part of a 10-month

study of the comet conducted by IUE astronomers since September 1985. "Through the period of Halley's Comet observations by the IUE and many ground observatories, scientists hope to merge the in-situ information from this month's Halley encounters into the larger context of the comet's long-term behavior," said Dr. Yoichi Kondou, Goddard's IUE project scientist.

The IUE is conducting a long-term study of the types and quantities of material ejected from the nucleus of the comet. From a vantage point high above the absorbing and obscuring effects of the Earth's atmosphere, the ultraviolet telescope measures the comet's water ejection rate and its carbon, sulfur, and oxygen content.

The telescope is also making periodic measurements of variations in the visual brightness of the comet. The IUE has shown that Halley's brightness can double in a few days.

George Sonnborn, IUE telescope operations manager for Computer Sciences Corp., Silver Spring, Md., believes that "the benefit of observing the comet from the IUE or ground observatories over a long period of time is that you get a 'movie' idea of how the comet changes, often from day-to-day. Earth-based and orbiting telescopes also provide a much wider-angle view of the comet at a given moment than do spacecraft passing the comet. Both these features should complement the 'snapshot' work of the probes by helping describe the stage of the comet's life that the probes see," said Sonnborn.

NASA had originally intended to provide orbiting observatory support to the international cometary probes through the Spartan-Halley and Astro-1 experiments, telescope payloads to be carried aloft by the shuttle. The experiments, however, were canceled because of the Space Shuttle Challenger accident in



January. In an effort to find an acceptable alternative, Sonnborn and Michael Myrland of the Bendix Corp., (Teeterborough, N.J.) and IUE Control Center Manager, developed a new viewing schedule to provide par-

ticularly heavy IUE coverage during the encounter days.

The revised schedule included nearly 60 hours of viewing time. All observations were performed by Dr. Paul Feldman of Johns Hopkins University and Dr.

Michael A'Hearn of the University of Maryland in collaboration with a European team of astronomers headed by Michel Festou of France's National Center for Space Research, with support from the IUE staff at Goddard.

## Photographers can capture comet

By Peter Morfin  
Avion Staff Writer

Halley's Comet, the celestial event of the century, provides a once-in-a-lifetime opportunity for photographers. The comet, which returns about every 75 years, may be easily photographed with a simple 35mm camera and other common equipment.

Astrophotography, the art of photographing celestial objects, is an easy and rewarding pastime. Beginning astrophotographers need not have a telescope or clock drive to follow the apparent motion of the stars. All that is needed is a 35mm camera with a manual or "B" setting, a tripod, and a cable release to avoid shaking the camera.

Comets are one of the most popular subjects for astrophotographers. Depending

on increasing periods of time, from 10 seconds to 40 seconds. Longer exposures will cause streaking of the subject and background stars. Film with as low a speed rating as 100 ASA may be used, but higher speed films are better. The most recommended speed is 400 ASA.

Star constellations are a good subject to shoot with a wide angle lens, such as a 28mm or 50mm. Exposure times from 16 to 32 seconds produce excellent results on color or black & white film from 100 to 400 ASA. The colorful nebula in the constellation of Orion is quite apparent in pictures taken with a 50mm lens.

Sometimes streaking, or trailing, is desired to produce a certain photographic effect. Star trails are easily made by pointing the camera at any section of the sky and leaving the shutter open

for increasing periods of time, from 10 seconds to 40 seconds. Longer exposures will cause streaking of the subject and background stars. Film with as low a speed rating as 100 ASA may be used, but higher speed films are better. The most recommended speed is 400 ASA.

The Moon provides many opportunities for interesting photos. Since it is a very bright object, lower speed films may be used if desired. A crescent moonrise trail makes for an unusual subject on 64 ASA slide film. A 400mm lens at f. 7 with the shutter open for 10 minutes creates a fascinating picture.

A lunar eclipse may be photographed as separate images or as a trail. Using a 400mm lens and many short exposures every few minutes, pictures can be

the spectacle from beginning to end. Astrophotographers may wish to have their film processed at a lab offering one-hour developing. This way they can ask specifically for a dark background on all pictures. When photographing bright objects, a UV (ultraviolet) or sky filter may cause double images.

Astrophotography, the art of photographing celestial objects, is an easy and rewarding pastime. Beginning astrophotographers need not have a telescope or clock drive to follow the apparent motion of the stars. All that is needed is a 35mm camera with a manual or "B" setting, a tripod, and a cable release to avoid shaking the camera.

Comets are one of the most popular subjects for astrophotographers. Depending on the desired field of view, any lens from about 50mm to 200mm may be used. The larger the field of view, the more light enters the lens. The lens should be opened to its maximum aperture, between f. 2 and f. 3.3.

Several exposures should be made, leaving the shutter open

lens, such as a 28mm or 50mm. Exposure times from 16 to 32 seconds produce excellent results on color or black & white film from 100 to 400 ASA. The colorful nebula in the constellation of Orion is quite apparent in pictures taken with a 50mm lens.

Sometimes streaking, or trailing, is desired to produce a certain photographic effect. Star trails are easily made by pointing the camera at any section of the sky and leaving the shutter open for a few minutes to a few hours. The best results are produced by centering the picture on the North Star. Using a 28mm lens at f. 2.8, 400 ASA film, and leaving the shutter open for 30 minutes to an hour, the stars will create concentric circles around the North Star.

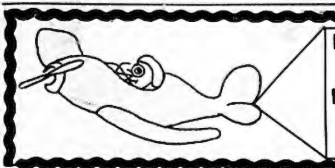
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A lunar eclipse may be photographed as separate images or as a trail. Using a 400mm lens and many short exposures every few minutes, pictures may be taken of each phase of the eclipse as the Earth's shadow passes over the face of the moon. Exposure times increase as the moon becomes darker. A lunar eclipse trail may be photographed with a 28mm lens at f. 16 and 400 ASA film. Leaving the shutter open for about four hours will capture



Star trails with 50 mm lens, 5 minutes at f2, 1600 ISO.

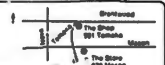
The constellation of Orion is photographed from Ormond Beach with a Pentax K-1000 sporting a 50 mm lens. The 100 ISO speed film was exposed for 40 seconds at a f-stop of f2.8. The Great Nebula of Orion is visible above the bottom star in Orion's 'sword.'



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**By Rick Fingers  
Club Spokesman**

Severe thunderstorms attended the Riddle Riders beach party in Ormond with the Future Professional Women in Aviation (FPWA). Due to the slightly inconvenient weather the party was rescheduled for the next weekend. Hopefully this time everything will be looking good.

The Bike Week Parade was great. The club rode toward the front of the pack only a few bikes behind Willie G. Davidson and the Harley Dresser Club. Everyone enjoyed themselves and Mr. Brown was almost attacked by a group of disappointed teenage

**Motorcycle Club**

girls when he failed to ride topless as rumor had it.

After the parade the club split up, some went to the beach while others went for a ride.

The club had a visit from the Founding President, Chuck Lee (Road) and the prettier than ever Jackie. They showed up at the Friday night social during Bike Week. Chuck donated to the club lots of posters, patches, stickers and advice. All of which were distributed at the next meeting.

It was good seeing you again Chuck. Glad to hear that everything is going well with your job.

The second camping trip will be held this weekend. It will be at

Sebastian Inlet near Melbourne. The death-defying, highly competitive canoe trip is scheduled for April 11. This will be the last event of the Spring trimester and will also mark the replacement of Paul E. and Kawboy Dave with Suiff and Skimmer as canoe racing champions.

The next meeting is this Thursday, 27 March at 7:00 p.m. in room #401. We will discuss the success of our beach party and when and where to meet for the overnight at Sebastian Inlet.

The new T-shirts are in and looking good. They will be available at the meeting.

*Ride aware—show you care.*

# AIAA

**By David Corcoran  
AIAA Member-At-Large**

The AIAA is a national organization made up of students, faculty, and professionals in the industry who all share a common interest in aeronautics and astronautics.

We here at ERAU can boast of being one of the largest and most active chapters in the Southeast. This is because we satisfy our members' desire to cut loose and have a good time while still offering chances to rub elbows with industry leaders in a professional atmosphere.

## American Institute of Aeronautics and Astronautics

Take, for example, last month's professional celebration of National Engineers Week (N.E.W.). The officers would like to thank all of those great members who volunteered their valuable time to the cause as chairmen, Engineering building tour guides, concert judges, and all the other clubs that participated in the celebration and recognition of N.E.W.

A perfect example of the social realm of this organization is our annual canoe trip to Ocala National Forest. Just think of hopping into a canoe and drifting effortlessly down a quiet, curvaceous, fresh water river taking a

pit stop every now and then to swim and maybe even swing on one of the giant rope swings over the spring. *Fantastic!*

The date of this year's trip is Saturday, March 29, 1988. The sign up sheet is in the AIAA mailbox upstairs in the Engineering building. We are going to car pool so sign up now and we will send you all the info you need.

If you are not a member of AIAA yet, come on up and join. Leave a note in the same box that the canoe trip sign up sheet is in and we will rush you an application.

# Scuba Club

**By John Gatsy  
President**

Lmbry-Riddle's Scuba Club will have its next meeting this Monday, March 31. We'll be gathering in the CPR at 6:30 p.m. This past weekend some of our members made a dive off West Palm. The plan was to dive the Roli Royce (yep, a car) that was sunk by some rich person with nothing else to spend money on.

A second dive was to be on a reef on the way back in from the Roli. The cost of the dive was about \$20.

This week we will be discussing a trip to the Keys to dive Pensacamp Park. This dive is tentatively set for the April 5th weekend.

We will also discuss plans for the summer (twelve long dives and parties) and a scuba equipment "swap day."

We have found out that there are people out there with gear for sale or trade and there are lots of us in the club that need and want gear. Keep an eye out for more info about this event.

Any information about the club or dives can be obtained by leaving a note in our box in Student Activities or by stopping at Atlantic clubs and talking to Dave Nolan.



## American Helicopter Society

**By Stephen Wooster  
Officer of Public Relations**

At our last meeting we discussed Spirit Day. Our President, Torkel Tell-fon, offered the SGA our assistance with the event, to take place on Friday, April 4. We plan to take shifts in order to explain and answer questions concerning a helicopter on display donated by DBA.

VCR in the AMT Conference Room.

Hence, *Blue Thunder* will be shown Thur., Mar. 27 at 7:00 p.m. in the AMT Conference Room.

Members also looked at scholarships offered by the AHS but unfortunately, it is too late to submit entries this year.

The AHS/Boeing Vertol Student Design Competition was discussed by chapter members. This annual competition was instituted for student teams to gain practical preliminary design ex-

perience through the development of an actual aircraft. Obviously too great a task for our chapter in our first year, but it looks like an interesting project to get involved in the years to come.

Torkel is still working to get a tour of WCPX Channel 6's Helicopter facilities and helicopters. The outlook is good.

We invite all who are interested in helicopters to come to our meetings and join our chapter if they want. Meetings are at 7:00 p.m. Thursday night in the AMT Conference Room. Check us out!

# Silver Wings

**By Pete Markie  
Public Relations Officer**

With only a month to go, the members of Silver Wings are preparing to end the semester with a final dive to raise funds for the Donald Polinske Memorial Scholarship Fund.

We are selling doughnuts in

to help raise funds for the scholarship. In addition, a Spaghetti Dinner is planned for April 5th; the time and date will be announced.

At our last meeting, the members decided to hold officer nominations on 26 March for the Fall semester. All members are urged to carefully consider whom they would like to be the next

are still a young organization, we will need leaders with enthusiasm, patience, and a good understanding of the club's needs. I hope that everyone will vow and add their input as to how we can improve our organization.

Our next meeting will be on 26 March, in the AFROTC building at 6:00 p.m. Please try to attend as this will be an important meeting.

*Blue Thunder* (the movie) turned out to be almost impossible to show in the U.C., so the quick think as AHS members asked what's wrong with showing it on a

Club writers must turn in their articles by 6 p.m. on the Wednesday prior to publication. Organizations may submit material before 6 p.m. on the Thursday preceding publication if on diskette in wordstar format. The *Avion* encourages clubs and organizations to submit photos of recent activities to further inform the student body of Embry-Riddle.

# EAGLE FLIGHT CENTER

F.A.A. 141 Approved Flight School

We are selling doughnuts in front of the AMT building on Monday.

Our next meeting will be on 26 March, in the AFROTC building at 6:00 p.m. Please try to attend as this will be an important meeting.

Organizations to submit photos of recent activities to further inform the student body of Embry-Riddle.

# EAGLE FLIGHT CENTER

F.A.A. 141 Approved Flight School  
All Ratings

**Rentals (wet) Per Hour**

C150	\$27.00
C152	\$29.00
C152 IFR Aerobac	\$31.00
Warriors	\$42.00
C172's IFR (S)	\$42.00
C172RG	\$50.00

**Rentals (wet) Per Hour**

Archer II (IFR, AIR, HSD) NEW	\$50.00
Mooney Exec	\$55.00
Saratoga SP (NEW LOADED)	\$85.00
Seminole (Twin)	\$104.00
Simulator (Block Time Discounts)	\$12.00
Complete Aerobatic Course	\$399.00

**2 DAY ACCELERATED GROUND SCHOOL**  
★ GUARANTEED ★

★ Writings included ★

★ Books Included ★

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Private Pilot Course • Instrument Course  
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★ 1 Coupon Per Exam  
★ Must Present This Coupon (Just Off Clyde Morris)  
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★ Must Present This Coupon  
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(Just Off Clyde Morris - Next To ERAU)

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- ★ Part 141 Approved Aerobatic Course
- ★ "Aerobatic 101 (Only \$399) Offer Expires 3/31/86 So Enroll ASAP"

**EAGLE FLIGHT CENTER**  
1624 Bellevue Ave.  
(Just Off Clyde Morris)  
255-3456

# L5

## Aerospace Society

By Jim Banke  
L5 President

The next meeting of the L5 Aerospace Society will be held tonight at 7 p.m. in room A-201. Tonight we'll talk about the future of the space program, as well as some of the important activities coming up in the near future.

This will be the fifth in a series of six evenings devoted to the past present and future of the space program. For this fifth session we'll look at some new (new, mind you, not the ones we saw earlier in the term) slides of the

proposed space station and we'll look at portions of the fourth episode of Spaceflight.

Things still looked good for a picnic last Saturday, but if it was cancelled because of weather we'll announce a rain date for the picnic tonight.

Next Wednesday, April 2, Dr. Fleck will speak on (Halley's Comet at our weekly meeting. He'll talk about the history of comets, and try to show us where we might find the comet in the morning sky.

With Dr. Fleck speaking on that Wednesday, L5 will have a trip to the Canaveral National

Seashore the following Saturday or Sunday morning, depending on weather. The trip will involve leaving Embury Riddle V&RY early in the morning for some comet gazing. Transportation will be provided by car pool.

The following week we'll have laser print sales in the U.C. in association with Spirit Week. Along with our sale, we'll have some kind of activity to promote ERAU spirit and the space program.

Many more events are still ready to happen this term before everyone takes off for the summer. Find out about what's going on at tonight's meeting.

# AFROTC

The Spring Trimester is winding down with end-of-the-year activities only a short distance away. We are left only two weeks until the Pass in Review and Dining Out activities take place with graduation for the Seniors shortly after. There is, however, a lot to be done before then. So, let's not let up one bit before the last day of classes.

This year's PFT is over and has accomplished its task of preparing this year's sophomores for camp this summer. Field Training is no easy event, but at least those who plan to attend will be sure of one

thing: expect to work hard, but try to have fun!

Finally, thanks to all those who participated in the Line Cup in Orlando. Regardless of the results, we had a good time.

## Arnold Air Society

By Tat Li Russell Barile  
Public Affairs Officer

Last Sunday, Arnold Air Society held our Pledge Initiation Dinner. The dinner was held at the Magnolia Avenue Grill in Daytona Beach. Out of the seven cadets who began the program only five completed it. Congratulations to Pete Bristol, A.J. Pope, Pat Renwick, Scott Tabor, and Toby Welchel.

These five cadets have shown their determination as they

desire to be a member and we look forward to working with them in the future.

AAS members will be doing one of their last service projects this weekend. We will be going to the Geriatric Center in Daytona Beach along with DOX. There the DOX teams will be performing and AAS will distribute refreshments.

Finally, we would like to wish everyone a happy Easter and please remember that seat belts save lives.

# FPWA

## Future Professional Women in Aviation

By Elizabeth Dobb  
President

Hello! F.P.W.A. is in its party planning mood! Most of our fundraising for the semester is over. We have started our mode with a M\*A\*S\*H PARTY with the Vet's Club on Saturday, March 22. All of the F.P.W.A. members wish to thank the Vet's Club for the invita-

tion!

We had planned a Beach Party with the Riddle Riders the weekend of March 15-16 but we were definitely rained out. However we are planning to have another crack at holding a beach party before the semester is over.

We are now in the process of choosing our design for our new

shirts. If any of the members have any ideas on a design please contact me.

We are still accepting members, so if anyone is interested in joining us please contact me at Box 3360. I would like to give special thanks to all of the girls that helped with the fundraisers, F.P.W.A. greatly appreciates it!

# PLAN

(continued from page 1)

"We also wanted to do whatever was possible to simplify and smooth registration at the Daytona campus," added Doten. One problem with registration recognized by the committee was that the current tuition payment policy allowed students to pre-register but did not require them to pay any fees until after the first day of classes.

When students attempt to register through the normal registration process, classes appear full when, in fact, several "ghost students" (those that never show up for a class for which they pre-registered) are filling the rolls. This leaves Records and Registration personnel unsure of the number of seats available until add/drop.

"We start normal registration at the beginning of each trimester not really knowing what we have available because we haven't activated the pre-registered students yet," Doten explained.

"Pre-registration is a benefit to both the student and the University," said Doten, "but we need to know for sure if you are coming back." One area the committee studied as a possible way to reaffirm that students are returning to school was to move up the due date for tuition payment.

Any change in the payment plan will be "an attempt to get back to the intent of the policies that have been in the catalog for a long time," said Doten. A change to the tuition plan should make the normal registration process a more valid operation, he feels.

The use of "late fees" to penalize those students that do not pay tuition on time has apparently not had the desired effect of reducing the number of delinquent student accounts or increasing the percentage of pre-registered students that activate on time.

Chief of Student Accounting, Cherie Armstrong, provided these statistics for the Fall trimester: 911 student accounts were billed the \$23 dollar late fee and 377 accounts were assessed the 100 dollar fee.

Of the 159 students that did not pay their tuition for the Fall, 100 of those paid their delinquent tuition in January in order to be allowed to register for the Spring trimester.

# NASA

(continued from page 6)  
Scotfield testified that the shuttle encountered "a busy wind" that shook it unusually hard between 49 and 60 seconds through its flight.

"We don't think this would open a gap in a healthy solid rocket motor seal," Scotfield said. These rubber-like O-ring seals in the suspect booster rocket joint are the focus of the remain-

ing theories of the accident's cause.

Scotfield added that there is no way to evaluate the effect of the wind forces on "a degraded (seal) structure."

One theory holds the seals were somehow damaged at launch, because gray smoke was seen coming from the suspect seam on the right booster rocket in the first second of ignition.

Engineers believe that this flow grew into the much larger leak that occurred just before 60 seconds of flight. The shuttle exploded in the 74th second.

I would like to give special thanks to all of the girls that helped with the fundraisers, F.P.W.A. greatly appreciates it!

## ERAU SCUBA CLUB

As a Marine Officer, you could be in charge of a March 2+ E/A-18A, a vertical take-off Harrier or one of our other jets or helicopters. And you could do it by the time you're 23. But it takes a special commitment on your part. We demand leaders at all levels. We teach you to be one. If you're

a freshman or sophomore, ask about our undergraduate officer commissioning programs. If you're a junior, check out our graduate programs. Starting salaries are from \$17,000 to \$23,000. And you can count on going farther...faster. We're looking for a few good men.

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## ERAU SCUBA CLUB

At our next meeting- we will discuss

**WEEKEND TRIP TO KEYS THIS MONTH**

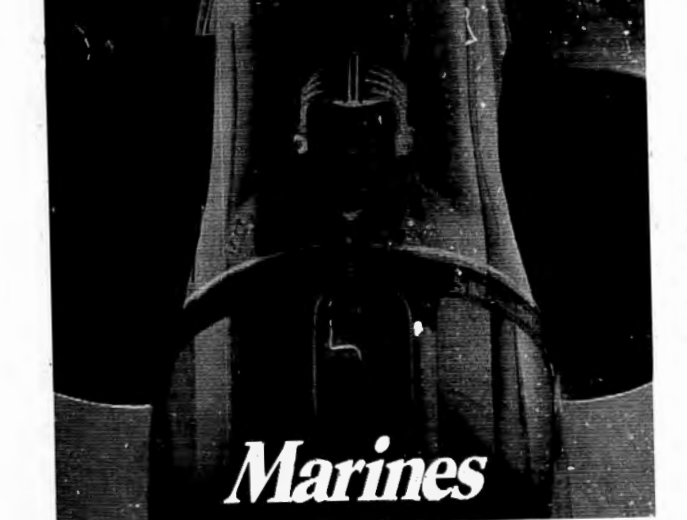
**SCUBA GEAR SWAP DAYS**

**CERTIFICATION CLASSES**

**SUMMER ACTIVITIES**

Next Meeting Monday, March 31, at 6:30 in CPR

Go farther... faster.



# Marines

See Capt. Meurer at the University Center March 31-April 3 or call 1-800-432-2061

## STUDIO ONE

### HAIR DESIGN

\$8.00 Special

Haircut & Blowdry

E-RAU Students only

With Presentation of this coupon

1351 Beville Rd. Ask for Maryann,  
Foxboro Plaza Bethony or Patt  
761-7227 Expires April 19, 1986



# Spirit of '86

The SGA hears a lot of comments about there being no spirit at ERAU... Well, for all students and faculty who feel the need... here's your chance to begin an ERAU tradition, one week of the year when we can CATCH THE EAGLE'S SPIRIT!

**Friday April 4**

## KICKOFF DAY

- 1-100/Coca Cola Van on campus
- Broadcasting LIVE
- Free visors, T-shirts
- Free Coke & hot dogs!
- History of Roc. N Roll time tunnel, Video/Laser Show

Register to Win  
one of the four  
rides with Bob  
Hoover

**Saturday April 5**

## LUAU

- Polynesian Luau
- Live Band-Sugar Creek Band
- Food & Refreshments

## SPORTS DAY

- Frisbee Throw
- Waterballoon Fight
- Volleyball Tournament

**Monday April 7**

## SAND AND GOLD DAY

- Waterballoon Fight
- Volleyball Tournament

- Band
- Food & Refreshments

**Monday April 7**

## Aviation Appreciation Day

- Dozens of Aircraft Will Be Arriving On Campus For Skyfest
- Big Screen Video Presentation of Airshows, Naval Aviation and More in the U.C.

## SAND AND GOLD DAY

- Best Dressed
- Best Car
- Best Motorcycle
- Best Dorm Window
- PRIZES, PRIZES!!!

**SURPRISE DAY**  
Watch for  
Details!

## NAMIC C&O DAY

- Helicopter Demo on Campus
- Flight Team Aircraft Inspection Contest
- Plane Smash
- Skydiving Exhibition
- Free Giveaways and Much More!

## SKYFEST

Salute to The  
75<sup>th</sup> Anniversary of  
Naval Aviation

### PRIZES

- A Seascape Cruise
- 2 parasailing rides
- 2 jetski rides
- A Kikini from the Bikini Company
- A weekend for 2 at the Hilton
- A dinner Cruise for 2 on the new Dixie Queen
- Dinners for 2 at any of Daytona's finest eateries
- Memberships at Indigo Lakes SPA
- T-shirts, jackets, and Skyfest tickets

## SKYFEST

### 60<sup>th</sup> Anniversary B-BQ

- Live Band
- Food and Beverages
- Tickets On Sale in the In/Com Center
- Meet the T-Birds

Co-Sponsored By SGA and the Chancellor's office

## NOTICES

### New Flight Course

AS395A Commuter Aviation will be offered this fall as an elective in the Aeronautical Science Curriculum. The course will focus on the business aspects involved in commuter aviation with a group project required. The project is the formation of a commuter airline beginning with a market survey through aircraft procurement and operations. Interested students should consult the Fall Schedule of Classes or see Mr. Bruce Morrin in H-105 ext. 1334.

### Library Material Due

All library material is due April 24 at 5:00 p.m.  
Spring '86 Graduates — All library material must be received by April 24 at 5:00 p.m. in order for you to receive your diploma.

### Photo Contest Update

The Embry-Riddle Aeronautical University Contest has been extended to April 4, 1986. There will be one trophy awarded for each of the three categories: Student Social Life, Academic Life and Aviation Excellence. Come to Student Activities for more information. All photos will be attributed to the individual photographers.

### FAA Written

FAA Pilot Written Examinations are to be given on the following dates:

April 1, 8, 15 0830 H-131, GRW Complex  
Friday, April 25 0830 H-113, GRW Complex  
Students intending to take an FAA Pilot Written Examination are required to sign up in office D-200 of call extension 1307 prior to examination day.

At the time of the examination, each student must present a receipt for pilot exam fee, validated by the Cashiers Office; a Written Authorization Form signed by an appropriate Aeronautical Science Division Ground Instructor, or the failed results of a previous FAA written examination and present identification and Airman Certificates, driver's license or other official document. Explanation of application forms and procedures will be given at 0830. Immediately thereafter, testing will commence and unless prior arrangements have been made, late examinees will not be permitted to enter the examining area while testing is in progress.

### Treasure Hunt

To celebrate the 60th Anniversary of ERAU the SGA is sponsoring a "Treasure Hunt." There will be a total of two treasure hunts held on campus between now and Skyfest weekend, April 12 and 13. A new treasure hunt will start each Wednesday with the initial clue to be published in the AVION. The winner will receive two free tickets to the BARBECUE and a LIMITED EDITION package of 60th Anniversary Memorabilia (T-Shirt, Mug, Etc.,). To participate, find the building that is named after the person in the following description. You will find the next clue there, proceed on. Note: You will not have to enter any private offices (buildings may be used more than once).

WWI Fighter Pilot, War Correspondent,  
Founder of 1st Civil Air Patrol,  
Editor of Flying Magazine, and  
Aviation Post:

Ten thousand grand for a dozen g's,  
And no one can take thirteen of these.  
And all I do for this princely dough  
Is climb as high as the ship will go,  
And dive until the needle hits the pin  
In the gadget that shows how fast I've been.  
Then throw her in reverse control  
To see if I and the ship stay whole.  
If the wings stay on and the fittings tight,  
And the elevators function right,  
And the ailerons don't flutter away,  
Or pressures buckle where pressures may,  
I climb again with a like intent  
To prove that it wasn't an accident.  
Pick up g's with a spinning fall  
To see if she's weak that way at all.  
I loop for balance and stall for glide  
And whistal hard with flaps out wide.  
I spin wheels up and spin wheels out  
And spiral ar' I slip and slam about  
In landings rough as the tank can stand  
To prove each step the designer planned.  
Then I taxi into an open ditch  
And don't get yald for the somefab'.

The winner's name will be published in the Avion with the following weeks club.  
The Treasure Chest that you are seeking is a styrofoam biplane.  
GOOD LUCK!

P.S. Be sure to buy your tickets to the BBQ early, sold in advance only and the supply is limited.  
This space donated by the Avion.

### Library Hours for Easter

Good Friday  
Saturday  
Easter Sunday

March 28  
March 29  
March 30

Closed  
Open  
Closed

### Skyfest Tickets

Tickets for Skyfest '86 will be on sale in the Student Activities Office, located in the U.C., on April 1st-11th, Monday through Friday from 9 a.m. until 4:30p.m. Ticket prices are as follows:

Students, Military Personnel, and Senior Citizens: \$5.00 per day  
ERAU Students, Faculty and Staff: \$5.00 per day

All tickets sold on the day of the show will be \$8.00. Tickets are good for one day only.

### Skyfest Volunteers Needed

Skyfest '86 will take place April 12th and 13th. Students are needed to volunteer for a variety of positions. In exchange for working, students will receive a variety of incentives beginning with free tickets.

Students are also needed to work in the Skyfest Office located in A-Building from 9a.m. - 3p.m. Monday through Friday, until Friday April 11, 1986. People are also needed to sell tickets at the Volsala Mall April 7-5 through 11th from 10 a.m. to 9a.m.. Shifts will be set up.  
Phone contact Kathy Novak in the Student Activities Office in the U.C., or call ext. 1049 if you or anyone in your organization is interested.

### 1986 Fall Co-op Applications

If you are interested in a FALL 1986 co-op position, and you will be in school this summer, please come by the Career Center and complete a Transcript Release Form. You should also turn in a Co-op Qualification Record and Eligibility Form before leaving school for the summer.

# FLY PHOENIX EAST

Arrangements have been made, late examinees will not be permitted to enter the examining area while testing is in progress.

P.S. Be sure to buy your tickets to the BBQ early, sold in advance only and the supply is limited.  
This space donated by the Avion.

For more information, please come by the Career Center and complete a Transcript Release Form. You should also turn in a Co-op Qualification Record and Eligibility Form before leaving school for the summer.

# FLY PHOENIX EAST

LOCATED AT DAYTONA BEACH AVIATION COMPLEX  
AT THE BASE OF THE TOWER

## ONE THING LEADS TO ANOTHER

### DISCOUNT COUPON GOOD FOR ANY ONE OF THE FOLLOWING

Any F.A.A. Written .....	\$3.00
1 Flight Hour (Cessna or Piper) .....	\$5.00
Simulator: Single Engine .....	\$2.00
Twin Engine .....	\$3.00
Flight Examiner Check Ride (any rating) .....	\$10.00
Seminole (Dual) .....	\$10.00
Cessna 402 (Dual) .....	\$15.00
Navajo Chieftain (Dual) .....	\$20.00
Aerobatic Lesson (Decathlon) .....	\$5.00
Charter Flight Anywhere .....	10% Discount
Any Accelerated Ground School .....	\$10.00
Additional Ratings (MEL, CFI, ETC.) .....	\$25.00
Airline Career Counseling .....	FREE
Sight Seeing Flight .....	\$3.00
Any Aircraft Purchase .....	\$500.00

Limit: One Per Customer Offer Expires March 31<sup>st</sup>

### AIRCRAFT

### SOLO PER HOUR

Piper Tomahawk .....	\$25.00
Cessna 150 .....	\$27.00
Cessna 152 .....	\$30.00
Cessna 172 & Warrior .....	\$42.00
Piper Archer .....	\$47.00
Cessna 172RG .....	\$50.00
Piper Seminole PA-44 .....	\$104.00
Cessna 402 (Dual Only) .....	\$250.00
Navajo Chieftain (Dual Only) .....	\$270.00
Bellanca Decathlon .....	\$45.00

### 2 day accelerated ground school

Experienced - Professional - Guaranteed

Package	PER	DAY	PER	MAX
1 ground school	10	25	25	25
meal	22	25	25	25
2 ground school	20	25	25	25
2.5 hours & fuel cost	20	25	25	25

OPEN 24 HOURS DAILY  
258-0703 or 255-0471

# CIS

(continued from page 1)

puter Coordinator, is finalizing these negotiations and hopes to have more information by the end of the Spring semester. James hopes to have the \$50 course fee associated with computer courses reduced for students who purchase computers. Thorne explained that the fee was a "technical support fee" and not a "lab fee" as it is often referred to. "A lab fee implies the money is going to the [com-

puter] lab. In actuality the money goes to support smaller classes, lab assistants and higher instructor salaries," Thorne explained.

### Computer Science

The Computer Science with Aviation Applications degree program has been revised after "a look at industry needs, as well as what the students want to accomplish," according to department chairman Abolfazl

Salmi. These factors indicated a need to "prepare the student for graduate school, business, or scientific applications."

Unlike C.I.S., students will not be required to purchase a computer to enroll in C.S.W.A.A.. Continuing students who are interested in either program should drop a note with their name, box, current major, and major of interest in room A-117, Dept. of Engineering and Aviation Sciences.

## BLOOM COUNTY

by Berke Breathed



### Bachelor of Science in Computer Information Systems

#### Core — General Education Requirements

- CS 108 Introduction to Computer Programming
- EC 211 Macroeconomics
- HU 122 English Composition and Literature I
- HU 123 English Composition and Literature II
- HU 219 Speech
- HU 221 Technical Report Writing
- MA 120 Quantitative Methods I

#### Core — Business Administration

- EC 210 Microeconomics
- EC 211 Labor Economics
- MA 222 Business Statistics
- MA 320 Decision Mathematics
- MS 201 Principles of Management

#### Major Requirements

- CS 101 Introduction to Keyboard Operations
- CS 110 Introduction to Computer-Based Systems
- CS 220 Applications Program Development I
- CS 330 Applications Program Development II
- CS 300 Systems Analysis Methods
- CS 305 Structural Systems Analysis and Design
- CS 310 Data Structures
- CS 400 Database Program Development
- CS 405 Applied Software Development Project

#### MA 220 Quantitative Methods II

- SS 110 World History OR
- SS 190 American History
- SS 200 Introduction to Psychology
- 3 Hours HUBSR Upper Level Elective (300-400)
- 6 Hours HUBSR Electives
- 6 Hours PS Electives

#### MS 210 Financial Accounting I

- MS 215 Financial Accounting II
- MS 311 Managerial Accounting
- MS 315 Finance
- MS 317 Organizational Behavior

#### Specified Electives (Select 8 hours from

- CIS 415 Office Automation
- CIS 420 Decision Support Systems
- CIS 425 Advanced Database Concepts
- CIS 430 Distributed Data Processing
- CIS 435 EDP Audit and Controls
- CIS 440 Information Systems Planning
- CIS 445 Information Resource Management

### Bachelor of Science in Computer Science

#### General Education Requirements

- EC 210 Microeconomics
- EC 211 Macroeconomics
- HU 122 English Composition and Literature I
- HU 123 English Composition and Literature II
- HU 219 Speech
- HU 221 Technical Report Writing
- MA 241 Calculus and Analytic Geometry I
- MA 242 Calculus and Analytic Geometry II
- MA 412 Probability and Statistics
- MA 430 Linear Algebra
- PS 301 Engineering Physics I
- PS 202 Engineering Physics II
- SS 110 World History OR
- SS 190 American History
- SS 200 Introduction to Psychology
- MS 201 Principles of Management

#### Computer Science Courses

- CS 115 Computer Programming I
- CS 215 Computer Programming II
- CS 220 Digital Logic and Computer Organization
- CS 222 Introduction to Discrete Structures
- CS 230 Organization of Programming Languages
- CS 235 Assembly Language Programming
- CS 240 Introduction to File Processing
- CS 315 Data Structures
- CS 330 Systems Design and Documentation
- CS 335 Introduction to Computer Graphics
- CS 350 Numerical Methods
- CS 341 Database Management Systems

#### Electives

- 21 300-400 Level Electives
- 12 Electives

## BARBEQUE AND PARTY

Sunday, April 13, 1986

- SS 120 Managerial History
- SS 220 Introduction to Psychology
- MS 201 Principles of Management

- Electives
- 21 300-400 Level Electives
- 12 Electives



## BARBEQUE AND PARTY

Sunday-April 13, 1986  
After the airshow



Tickets only \$1

Dinner 6:00  
Band (Trivia) 7:30

AVIATION TRIVIA SALES ONLY

Look for give-aways and ticket sales in the UC

Tickets also sold at:  
Community Relations-Bldg.A,Rm.205  
Student Employment-In front of UC.

Co-Sponsored by ERAU and ERAU SGA  
LIMITED TICKETS AVAILABLE!

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FREE MEMBERSHIP  
TAPES Only \$1.99  
3 FOR \$5.00



VCR's Only \$7.50 1 DAY  
\$12.50 2 DAYS  
\$19.95 1 WEEK

MON-THUR 10 - 9 FRI-SAT 10 - 10

Foxboro Plaza • 1339 Beville Rd.  
Daytona Bch., FL 32019 (904) 788-8009  
Corner of Beville & Clyde Morris Next to Louie's Pizza

NO DEPOSIT REQUIRED FOR TAPES

autos for sale

**1973 CAMARO - 350**, 3 speed, new battery, must sell, \$800.00 o.b.o. Call 425-1719.

**1969 VW BUS - run good**, \$800.00 o.b.o. Call 428-7302.

**74 MG MIDGET** - a spring break must, 34,000 mi. on faster, 10,000 on rebuilt engine, head, carb, TRW HIP pistons, 2146, New, a/c, belt, starter, ignition wires, check, clutch slave and master cyl., brake master cyl., rear shock, rear Pacific, fog lights and more. All bills to prove. Run and looks great! Must sell pay for 1A-207, 1200 o.b.o. Contact Roger 1107 or 235-4116.

**1977 VOLKSWAGEN RABBIT** - limited windows, Alpine stereo/eq. New tires, 52,100 o.b.o. Am, 1A1166 or Bon 7343

**1978 VW SUPER BIATLE** - 14" Mag 74ids Tire, yellow, looks good, needs major overhaul on engine. Needs paint. Call 238-3475 after 7:00 p.m.

**1977 DODGE P. U. TRUCK** - Good running condition. 4 cyl., 69,000 mi. 1 yd \$500.00 o.b.o.

**73 CADDDY CP DILLVILL** - Good reliable transportation. Excellent features - 5 speed car. Not bad on gas. Good for beach use. Call Mike after 6 p.m., 238-7179 \$250.

**1978 BUICK CENTURY** - 60,000 miles, 80, 80, 80, P. 80, am/fm, new from tires. Graduating senior, must sell, will take less, \$2,000.00 o.b.o. Call 788-6354, Mon 4:30, ask for Frank.

**79 FIAT STRADA** - auto, very good condition, low mileage, \$1,700.00 o.b.o., call 235-3640.

**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

**1978 SUBARU 4WD WAGON** - great beach/utility car, four wheel drive, bag-packs rack. Very reliable and good economy (20 m.p.g.) \$300.00 o.b.o. Contact Lee Hays at 673-3180 ext. 137 or 672-7257.

**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

**73 CAMARO** - run good, but needs some work. 3500 o.b.o. Good transportation to school. Call Charlie at 788-5645 before 5:30 p.m. or 257-4003 any time.

**1978 FIAT** - 5 speed, 91,000 miles, good running condition, asking \$900 or best offer. Vince, Bon 9127

**83 RED TOP FERRIBIRD** - all power/elec and the rest of it... Bought new by me, an elderly professor. \$7,500, phone 31, 1347 or 257-337 ext.

**78 TOYOTA COROLLA** - 5 speed, new paint and tires, a/c, low mileage, good condition, only \$1,750 o.b.o., call 232-5554.

**1980 TOYOTA CELICA GT** 2 dr sedan, reddish brown with cream colored canvas roof. New factory rebuilt engine, installed by Toyota. Needs a brake job. Looks good, no rust. Will sell cheap, \$2,500 or best offer. 677-7664 or 235-2560, ask for Joe.

**1978 ISUZU TRUCK** - runs good, \$2,300. 238-5277.

**1977 RENAULT 1E CAR** - run good, superb, low/mile, new battery and starter and very economical 42 m.p.g. Asking \$950. Call 235-6138.

**1980 KAWASAKI KZ1000 LTD** - Kitar Suzuki. Lockhart oil, 100% clean, dry, Dyna III electronic ignition, Continental tires, Windstar fairs, custom paint. Run great, looks sharp, \$1,900 o.b.o. 237-6542.

**1980 HONDA NIGHTHAWK 5** - Mile, 2,200 miles, excellent condition, \$2,800, 238-3277.

**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

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**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

**1980 SUZUKI DS 125 ENDOURO** - New tires and 2 spurs. Top end and clutch. Repair Manual and other extras. Reliability and Economical transportation. Very good condition. \$175. Call 238-7618.

**1981 HONDA PASSPORT C-70** - credit-stander 40-43 mph, 120 U.S. gal. fuel tank, good, economical transportation. Must sell now, Down 1 room 27 or 1-800 HON 6146.

**1981 HONDA PASSPORT C-70** - credit-stander 40-43 mph, 120 U.S. gal. fuel tank, good, economical transportation. Must sell now, Down 1 room 27 or 1-800 HON 6146.

**YAMAHA 1978 750 SPECIAL** - Mach, like that 20,000 miles, best offer. Call Doug 785-0208, Bon 2078.

**79 YAMAHA XS-1100 SPECIAL** - Mach, excellent condition, ask for Clinton cassette stereo with waterproof speakers. New tires and new 4 into 1 muffler flow system. Call Charlie at 788-5645 before 5:30 p.m. or 257-4003 anytime, \$1,700 o.b.o.

**1980 KAWASAKI KZ1000 LTD** - Kitar Suzuki. Lockhart oil, 100% clean, dry, Dyna III electronic ignition, Continental tires, Windstar fairs, custom paint. Run great, looks sharp, \$1,900 o.b.o. 237-6542.

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**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

**MURRAY 10 SPEED** - excellent condition, low miles, quick take \$80, ask for Mike, 785-1775.

**APPLE MACHINTOSH COMPUTER** - laser-printer and 31 disks packed with programs and games. Microsoft, Hayden, etc. 1 year old, great for any technical or managerial work. Call after 6 p.m. Mike 238-7379. Serious inquiries only!

**STEREO SYSTEM** - Name brand, 35 w/channel receiver, tape deck and speakers without shell off. \$210 o.b.o. 235-1025 ask for Chuck.

**STARTERS GOLF CHECK** - 1,5,7,9 1.3 words a poster. Like new \$52, 235-1025 ask for Ken.

**FOR SALE** - 8 months at the Daytona Cym for only \$75.00. Also, surfboard 1 yd used one. Excellent shape, \$175.00, call Keith 232-7863.

**rooms for rent**

**ROOMMATE NEEDED** - male or female to share 4 bedrooms house in Holly Hill \$115.00 to campus, \$152/week, 1/4 utilities. Contact Bob 4237.

**FOR RENT** - 1 bedroom apartment, partly furnished, close to ERAU and DISCC. \$283 per month. First and last and \$100 security. Call 232-6380.

**ROOMMATE NEEDED** - Forest Glen apartment on Nova Rd, approx. 3 mi. from campus. Need one roommate, preferably female, to share 2, 1/2 bedroom. 237-4068.

**ROOMMATE NEEDED** - CPH needs person to share 2 br, 2nd floor apt., a/c, pool, \$200, 8 mins from ERAU. \$167.50/week plus 1/2 utilities, \$170 sec. dep. Call Sean Post at (91) 761-7234 or (91) 428-0491 or note in Box G-129.

**ROOMMATE NEEDED** - CPH needs person to share 2 br, 2nd floor apt., a/c, pool, \$200, 8 mins from ERAU. \$167.50/week plus 1/2 utilities, \$170 sec. dep. Call Sean Post at (91) 761-7234 or (91) 428-0491 or note in Box G-129.

**MAL/FEMALE ROOMMATE** - All utilities included in rent; washer/dryer included; 2 bedrooms; even; air and heat included; your own semi-furnished with ceiling fan; just a couple minutes from Embury-Ridgic cable T.V. with Cinemas included; nice neighborhood, 5100 security; must be quiet student; rent only \$225/mo. (must be real, no smoking, no pets) Call Bob at 232-2513.

**WELL CLEAN** your house or apartment. We have our own supplies. Call today for a free estimate. Honest and reliable. Ask for Wendy 474-8300

**2 ROOMMATES WANTED** - preferable male non-smokers. Must be responsible and reliable. Rent is \$175 with \$250 security deposit. Will share electric, utilities and phone. For more information call 788-9432 and ask for Joe. Best time to call is after 6:00 p.m. no workdays and anytime on weekends.

**BLUNT OR BUY** - Beaters Drums, must see. 1 bedroom, four cabs. Sell travel trailer 21', 232-2002.

**ROOMMATES WANTED** - Summer A and B male or female persons to share 3 bedrooms, 2 1/2 bath, newly furnished townhouse, 1 1/2 miles to school. Contact Ken 235-4369 or Bon 4528.

**ROOMMATE NEEDED** - CPH needs person to share 2 br, 2nd floor apt., a/c, pool, \$200, 8 mins from ERAU. \$167.50/week plus 1/2 utilities, \$170 sec. dep. Call Sean Post at (91) 761-7234 or (91) 428-0491 or note in Box G-129.

**HOUSE ON BEACH 51D** - quiet neighborhood. One room, 4 1/2 bedroom. A. \$142/month, 1/2 a/c, utilities. Check. No deposit. Ask for Scott. 235-1503 or Bon 4137.

**2 ROOMMATES** - needed to share 3 bedrooms, 2 bath apartment at the Barrington. 1 mile from ERAU, for Semester A & B \$180.00 cash plus 1/2 electric. Contact Curt, ERAU Bon 4027.

**ROOM FOR RENT** - Modern apartment in Forest Glen, Nova Rd, during summer trimester. Approximately 2 mi. from campus, swimming pool, tennis courts. Call 237-4068 for more information.

**ROOMMATE NEEDED** - Forest Glen apartment on Nova Rd, approx. 3 mi. from campus. Need one roommate, preferably female, to share 2, 1/2 bedroom. 237-4068.

**ROOMMATE NEEDED** - CPH needs person to share 2 br, 2nd floor apt., a/c, pool, \$200, 8 mins from ERAU. \$167.50/week plus 1/2 utilities, \$170 sec. dep. Call Sean Post at (91) 761-7234 or (91) 428-0491 or note in Box G-129.

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**EXPERIENCED IN TYPING - BRAU** papers. Fast and accurate. \$1.25 per double spaced page. Money 238-7340.

Position Available. Administrative Assistant - Insurance Administrator. This position will be responsible for the property/casualty and general liability claims administration, will review all contracts and issues and provides administration support for the risk management function. Position will report to the University Director, Human Resources/Equity Services. A Bachelor's degree in business, insurance or a related field plus three years of related insurance experience or a minimum of 6 years of progressively responsible insurance administration experience.

Interested individuals should contact the Human Resources Director for an application for the risk management function. The deadline for application is the close of business, Wed., March 19 at 5:00 p.m.

personals

**Miss K. Strawberry Field** - will waiting for an answer to dinner. Will not just wait out it. A Casual Anniversary - wishes to firm up dinner date

To the ones I want to share the rest of my life with: I think you more than words can say, which gives me the good fortune of taking every minute of our lives together and knowing you just how much I really and truly love you.

**Magnus** - He who operates ultra-ordinary aircraft is "NUTS!"

**My Girls** - Sorry I haven't been communicating regularly but sending extraordinary has been happening at this extraordinary. All tasks are completed and I shall be transferring homebound in a few weeks. Surprise! Sweethearts

**Hi Kim** - Readings confirmed. Nice touch! Still wish your fun and look forward to more "friendly" crashes. Besides, you smell good! Pcp

**Most Senior Leader of Edwards Co** upon I can not believe that you are leaving the sacred land of the high d's. I have been betrayed by their craft but able to communicate with the lead dwellers so safely. And how do I find quarters at the shore now? The words will abide, but all you will be able to see are the grains rising from the green. Thank goodness for air transport. Edwards Group 1

cycles for sale

**1984 NIGHTHAWK 500** - outstanding condition, 3,000 miles, only \$1,800.00. I'm selling it all for \$130.00 or best. Call Mike at 238-9996, room 339 or Bon 7871.

**1984 HONDA NIGHTHAWK 5** - Mile, 2,200 miles, excellent condition, \$2,800, 238-3277.

**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

**1978 SUBARU 4WD WAGON** - great beach/utility car, four wheel drive, bag-packs rack. Very reliable and good economy (20 m.p.g.) \$300.00 o.b.o. Contact Lee Hays at 673-3180 ext. 137 or 672-7257.

**78 TOYOTA COROLLA** - a/c, new tires and good low mileage, good condition, call 233-2554, only \$1,400.

miscellaneous for sale

**600 NORTH STILL BAR** - 18 feet long. Come with electrical outlets, lights, power bar or blender etc., and adjustable shelves for use. Call now 761-6189 after 6 p.m.

**COMMODORE 64 COMPUTER** - and disc drive. Includes all connections, 4 manuals and a few discs and cartridges. 1 excellent condition. Paid \$340, but will sacrifice for \$175 or best offer. Ask for Ken at 756-8940 or leave a note at Bon 8074.

**FOR SALE** - 1 pig group couch, 2 dirt beds, 2 dressers, 1 kitchen set, 4 bar stools, 2 dressers, 1 kitchen set, 4 bar stools, 2 dressers, 1 kitchen set, 4 bar stools. Recent grad moving north. No reasonable offer refused. Call mornings 673-5843 ask for Dave.

**T.V. with Cinemas included**; nice neighborhood, 5100 security; must be quiet student; rent only \$225/mo. (must be real, no smoking, no pets) Call Bob at 232-2513.

**WELL CLEAN** your house or apartment. We have our own supplies. Call today for a free estimate. Honest and reliable. Ask for Wendy 474-8300

**WE BUY USED ALBUMS, CD's & CASSETTES**



**Check Out Our Low Prices**

Trade 2 used CD's for 1 new CD of \$13.99 value

Used CD's \$9.99

Manufacturers Suggested Retail	OUR LOW PRICE
COMPLETE RECORD & TAPE STORE	\$9.98.....\$6.99
	\$9.99.....\$4.99
	\$6.98.....\$5.99
	\$9.98.....\$7.99
	\$10.98.....\$8.99
	\$11.95.....\$9.99


138 Volusia Ave.  
W. Back West of Beach Street  
Downtown Daytona Beach

HOURS  
Monday-Saturday 9 AM-6 PM  
Sunday Noon-5:30 PM

(904) 258-1420

**BLANK TAPES**

TDK SA 90 Min. \$2.99 each 2 Pack \$3.99  
TDK S-X 90 Min. - \$3.99 each  
TDK SA 60 Min. - \$1.99 each  
Maxell UDXL II 90 Min. - \$2.95 each  
Maxell XL 115 90 Min. - \$3.95



**Pride and respect. They come with the territory.**

Be one of the first things you see when you walk into a Navy Officer's home. The recognition that you are a Navy Officer. The pride and respect that you deserve. The Navy Officer's home is the perfect place for you. It's a home that's built for a Navy Officer. It's a home that's built for a Navy Officer. It's a home that's built for a Navy Officer.

**LEAD THE ADVENTURE.**

**WE BUY USED ALBUMS, CD's & CASSETTES**

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Trade 2 used CD's for 1 new CD of \$13.99 value

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ALL YEAR  
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