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Shuttle landing weathered at KSC

By Brian F. Finnegan

The National Aeronautics and Space Administration saw a resurgence in both media and public interest as STS-7, the Space Shuttle's seventh mission, prepared for launch at Cape Canaveral's famous pad 39-A.

Perhaps the greatest reason for the renewed appeal of the shuttle program was the launch of America's first woman astronaut, Sally K. Ride. However, of equal importance was the launch of the first five member crew, the largest by any country, and the expected return of the orbiter Challenger to the Kennedy Space Center landing facility.

Previously, the media had to divide their efforts between covering the launch as Florida's east coast facility and the landing site, either Edwards Air Force Base or Vandenberg Air Force Base. But there was no division of attention for this historic flight and the press prepared for weeks in advance. The national media constructed permanent facilities along the viewing site located 1500 feet to the east of KSC's runway 15-33, a 17,000 foot postage stamp compared to the lakeland of Edwards.

Challenger's commander was Robert L. Crippen, pilot during the 54 1/2 hour maiden flight of the orbiter Columbia in April, 1981. STS-7 made Crippen the first astronaut to fly two missions aboard the Space Shuttle. Challenger's pilot for this flight was Frederick H. Hauck, a Tufts University graduate. The mission specialists were John M. Fabian, Dr. Sally K. Ride and Dr. Norman E. Thagard. Not originally a member of the STS-7 crew, Dr. Thagard was added in December, 1982 to conduct medical tests and collect additional data on several physiological changes that are associated with the astronaut's adaptation to the micro-gravitational environment in space.

A flawless three day countdown culminated in an empirical flash as Challenger sped skyward on the familiar tongue of fire that has become the trademark of shuttle launches. Correcting its course southward seconds after launch, visual sightings of the departing orbiter were reported as far south as Miami and the Keys.

An unusual twist, it was said and hurry up at the press site as acidic dust from the exhaust cloud, carried on an easterly breeze, drifted slowly over the scores of reporters and the millions of dollars of photographic equipment used to photograph the lift-off.

Minutes prior to launch, media personnel were warned of the toxic wind currents and advised to seek shelter until after the cloud had passed. A thick, greenish yellow and brown cloud, the exhaust hung heavily and, in fact, did drift over the press site. However, its heat was warmer than the early morning ambient air and, with the exception of a small remnant of a fireworks display, the cloud passed harmlessly overhead.

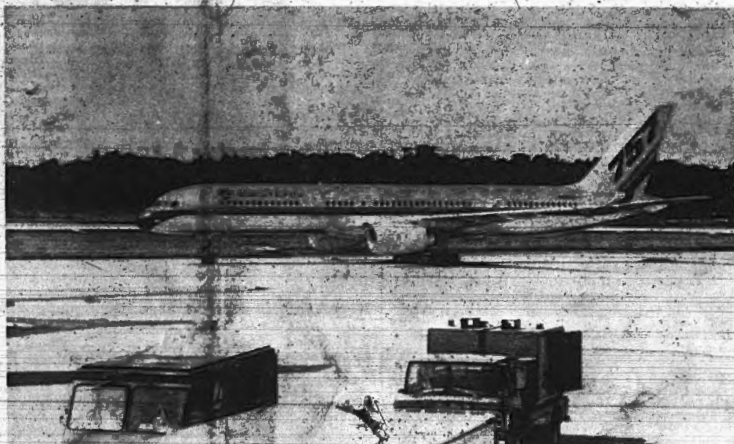
The usual feeling of post-launch anti-climax was not present this time as everyone's attention now focused on the final preparations to be made for the orbiter's first landing at the Kennedy Space Center. Many headed home to relax for the six days before the landing, a marked change from previous frantic dashes to the west coast for a welcome relief for the jet-lagged press.

Much was accomplished during this seventh space shuttle mission. Challenger's mission specialists launched the Telesat Canada Anik C and the Indonesian Palapa B communications satellites without complication and the slow familiar buzzword "WE DELIVER!" was echoed once again by Fabian and Ride. A McDonnell Douglas developed Payload Assist Module (PAM) boosted each of the satellites from the shuttle-placed low earth orbit into elliptical transfer orbits, eventually bound for a geosynchronous orbit, some 22,000 miles above the earth's surface.

Challenger carried the Canadian-built Remote Manipulator System (RMS) back into orbit on this mission and performed the first deployment and retrieval exercise with the German-built Shuttle Pallet Satellite (SPAS-01). Seven "Getaway Specials" were carried including an award-winning Camden, N.J. high school science project involving the effect of weightlessness on carpenter ants. Unfortunately, the ants, among the sturdiest of Earth-dwellers, could not withstand the extra-terrestrial jaunt and they all died.

The bugs to finish final preparations for the Challenger's landing began on Thursday, April 23, the day before the scheduled landing. Media personnel and spectators streamed into the space coast area in anticipation of the historic landing. Erroneous press releases pushed the landing back and even cancelled the KSC landing due to marginal weather conditions.

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Eastern's Boeing 757 arrives at McCoy International during regular scheduled flights. Eastern Airlines allowed Embry-Riddle students to board and sit among the electronics in the glass cockpit. (Photo by Holly Vath)

Students tour United at Orlando

By Brian F. Finnegan

Embry-Riddle students were afforded a unique opportunity to observe the daily operations of the Orlando (McCoy) International Airport in Orlando and United Airlines during the break between 'A and B term. A Management Club effort organized by President Bill Fildes, the tour of the Greater Orlando Airport Authority (GOAA) was available to all students.

Initially not the timeliest of affairs, our arrival was greeted with the news that a bomb had supposedly been planted on the United Airlines plane arriving from Ft. Meyers. The plane was consequently held at the departure airport and the Embry-Riddle entourage was briefed on the procedures for handling potential disasters. The plane eventually arrived without incident.

Park Learned, United Airlines' Orlando Station Manager, somehow found time in his schedule between dealing with the emergency and assuring the smooth operation of the airline to speak at length with us and discuss the problems involved in running an air carrier in the economically trying times of fare wars and no-frills flying.

"I have to rely," emphasized Learned, "on history and planning for our station." He said that his

station in Orlando has "the highest profitability level in the Southeast. We're numero uno and I like it. We're numero uno as we're going to continue to keep things screwed down, tightly around here." He said referring to the economizing they are doing to cut costs. He noted that "the biggest threat to any of the major airlines is People Express." Their leadership in cutting fares has set a precedent that all must work around.

While discussing informally with Embry-Riddle students in United's conference room about expansions taking place within the airline he elaborated on the new routes to Tokyo, Japan. He said that United will be departing out of Seattle, Washington rather than more centrally located San Francisco. "The Japanese are loyal to their flagship carrier, JAL, and we are not trying to compete for the Japanese traveler. Seattle offers the least path of resistance [shorter] and we are offering high levels of service out of Seattle."

The second half of the tour was a privilege view of the nerve center of the GOAA and a lecture/question and answer session with Jack Gillooly, the Executive Director. "I'm going to try," said Gillooly, "and tell you how an airport works." Financially, an airport operates on a huge budget. The airport charges a user fee for arriving aircraft and receives quite a bit of its income from airport concessions and from ground

transportation services. "The rental car agencies have signed a contract to pay 22.5 million dollars over the next five years and then ten percent of their gross income after that. News and gift concessions will pay 22.5 million dollars over the next ten years." He explained that all funds "go into the Airport Authority. "Eleven airlines have signed a signature lease guaranteeing rent for the next twenty-seven years." The landing fees are thirty-seven percent higher for airlines that do not sign the lease and the only ones that do not sign are those with a low traffic volume.

Gillooly, referring to the vast amount of land encompassing the airport property, noted that "the more land around an airport you control, the better off you are." It seems that the biggest problems affecting airports in general is complaints about noise. These problems can be nearly eliminated by controlling the layout of the departure end of runways, by far the noisiest areas.

Proud of the chain of command and personnel who manage the GOAA, Gillooly said that two hundred fifty-nine people report through department heads to him and they rely heavily on consultants for planning strategies. "We pay well compared to other airports and the government and we offer a good benefits package." On a final note before opening up

the floor to questions from the students, Gillooly said, "We are very much into the ground transportation business. If you can't get out of here, it's no good."

Noting that Orlando is the "Thunderstorm Capital of the World," Mr. Gillooly responded to a question of whether Doppler Radar will be implemented in the future to detect severe wind shear possibly avoid tragedies like the Pan Am 727-200 crash in Kenner, Louisiana during May, 1982. He maintained that certain prerogatives needed to be left to the pilot and the go-no go decision

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Fidel 'roast' ends Provost's term among friends and in style

By Holly Vath

A recent reception held for departing Provost, John A. Fidel, proved to be a success. Around 300 staff members, students and faculty members attended.

Four members of the Embry-Riddle community had a chance to "roast" Mr. Fidel. Wes Oleszewski, Avion cartoonist, provided some insight into Fidel's interaction with the students. Wes has diligently been producing the Klyde Morris cartoon for almost six years now.

The next roaster was Elliott Palmer, a faculty member in the Math/Physical Science department. Mr. Palmer presented Mr. Fidel with a kingsize Embry-Riddle parking sticker and a rain coat for attending future graduations in the rain. Mr. Palmer is a member of

the Faculty Council. Roger Campbell, Chairman of Humanities/Social Sciences Department, had his chance to roast Mr. Fidel. Sarah Fogle, Dean of Academic Affairs, also presented a humorous monologue about Fidel.

After the "roast" part of the reception, Charles Fountain, Director of Administration, presented the serious sentiments of the faculty, staff, and students. Fountains presented Fidel with a plaque for recognition of four years of outstanding service as Provost of the Daytona Beach Campus.

Fidel joined E-RAU in 1975 as Dean of Aviation Technology. Three years later he was appointed Provost. Mr. Fidel is a graduate of

in Annapolis, Maryland.

Mr. Fidel is now the Director of Development of Embry-Riddle and Executive Vice-President. His office has relocated to the Executive Offices in Bunnell. Fidel will be responsible for establishing and coordinating the development plan to fulfill the needs of the multi-campus university. After the "roast," Mr. Fidel especially thanked the Administrative Council, Campus Council, Faculty Council and the Student Government Association. Near the end of the evening a singing telegram was presented to Fidel from a woman dressed in tails, bowtie, and fishnet stockings.

Some of the Board of Trustee members and Board of Visitors See FIDEL, page 6



Provost Fidel is presented with an all-weather graduation gown from Mr. Elliott Palmer, a faculty member in the Math/Physical Science department. Fidel was promoted to Director of Development. (Photo by Dave Frost)

Editorial

The rise and fall of our softball field

By Dave Frost
Avion Sports Editor

Has anyone seen what was referred to as the "new softball field" lately? It is that field between the University Center and the flight line if there was any question about it. There seems to be a question about it and many students have been wondering why the upkeep of the field has been on a downward spiral since it was opened about a year ago. The field was initially a very fine playing area when it was originally opened. Proper baseball dirt was placed in the infield and the old grass in the outfield was replanted with newly planted grass seed. There was also a backstop along with benches and stands installed on the sidelines. A very professional job of setting up the softball field was accomplished and many students marveled on how it even improved the overall look of the campus. Other people felt good to see the University spending money on something tangible within the campus boundaries.

Time went by and the field was taken care of like normal softball fields are. The infield was dragged and raked and the outfield was watered and trimmed. Teams really enjoyed playing on the field, not just because it was on campus, but because it was one of the better fields to compete on. It seemed students had something to come to campus for besides classes.

Unfortunately, it seemed the field became secondary to some other project that was beginning to take shape on campus. That project later turned out to be the new racquetball courts. The courts were to become a great addition to the campus master plan for the future and many resources were utilized to make them a success. They were to be built right near the pool and weight area. It could be looked at like a campus athletic complex. An exciting idea for a school that abided NCAA athletics 3 years ago.

As the courts neared completion, the softball field seemed near completion in the opposite direction. The new outfield grass now has patches of dirt in some strategic areas. Specifically, the area the left fielder normally stands in now has enough loose dirt to make one think they were playing on the beach. Other areas have small potholes, dangerous advertisements to weak ankles. Over in right field there are either small plants or giant weeds growing.

The nice infield dirt that was present is blown to one side of the diamond. The dirt has not been raked backed into place. The infield is now as hard as a city street causing sliding players to severely skin knees. Players wearing long pants are not immune to this either.

What has happened to our beautiful softball field? The racquetball courts turned out very nice. A small park was even constructed by the spring senior class next to the courts. New grass and trees were planted and new benches and tables were also added. It is a very lovely sight on campus at last observation.

Are the same people who are responsible for the upkeep of the softball field now in charge of the racquetball area? Can they handle this additional task? Will the same scenario occur with the racquetball area as occurred with the softball field? These are questions that people will probably have different responses to but they are questions that time can only answer.

It is a shame to see money invested in starting and completing a great project that ultimately is left to die. What was once a great sight to see on campus has now become an eyesore. It is a contrast in sights when one sees the new racquetball area and then walks by the weathered softball field. Could this possibly have an influence on future students touring the campus? It might just seem like a small thing but this note will could just grow into a mountain if this kind of campus maintenance spreads into other areas. With the aviation world demanding meticulousity in all facets, it is now time that our aviation campus be given that kind of consideration also.



Embarrassing debt collectors break the law



DEBT COLLECTORS NOW MUST FOLLOW CERTAIN PROCEDURES TO KEEP FROM EMBARRASSING A PERSON WHO OWES MONEY: Under the federal law, collectors are allowed to call a debtor at work. But if the debtor says such calls are inconvenient, the collector must stop. To locate the debtor, the collector may call the boss or co-workers. But if the collector violates these rules or takes harassing measures, get in touch with the Federal Trade Commission, Sixth St. and Pennsylvania Ave., NW, Washington, DC 20580.

TALKING WITH A WOMEN IS THE BEST CURE FOR LONELINESS: Both sexes believe this, according to a survey of college seniors done at the University of Rochester in New York. Consensus of opinion: Women are warmer than men are.

LEADERSHIP CONSISTS OF 10 percent technical direction, 20 percent administration, 30 percent employee guidance and 40 percent employee motivation. Even the most brilliant technical virtuosity administrative skills are of little use without the vision and know-how to keep people moving.

TO BLOW THE WHISTLE on waste by government agency, misuse of federal funds or property, welfare cheats and tax fraud, call this hotline number: (800) 424-5454.

TALKING ASPIRIN to bring down a fever when you have a virus actually weakens your body's defenses. Interferon, a protein produced by the body to fight off the virus, works less effectively when the fever is brought down.

AN AIRPLANE'S INTERIOR air pressure is commonly as much as 20 percent below normal. This can aggravate some medical pro-

blems unless precautions are taken. When suffering from a badly stuffed-up nose, postpone flying. Use nose drops and a decongestant. Sometimes trapped air in the colon can expand, causing gas, discomfort or cramps. People with heart or lung diseases should check with their doctor in advance to discuss requesting supplemental oxygen from the airline.

TO CATCH A LIAR: Focus on the voice. People have trouble controlling it because they can't hear the way they sound to others.

Result: Inconsistencies between tone of voice and choice of words usually leak through. In contrast, the face is not reliable for spotting lies. Sometimes people usually can control their expressions.

AGAIN BE RUIN FOR PRIVATE COMPANIES BY THE FBI: The FBI stopped the services in late 1981 because it was overloaded with fingerprinting for the federal government. The bureau will

charge \$12 for each fingerprint check. (It used to be free.)

DON'T DIVORCE FOR TAX REASONS ALONE: But be aware that marriage status on December 31 governs tax-filing status for the entire year. A two-income couple that divorces before year-end will probably save on taxes. But when a one-earner couple divorces, the working spouse moves into a higher bracket. Flip side: When a one-earner couple is formed at year-end, tax savings result.

letters

Farewell

To the Editor:
It looks like there is a big personnel reduction going on in our school. Teachers and other workers are being told they are no longer needed because the University simply can't afford to pay them. Unfortunately, these things do happen, and those of us who believe in Democracy and Capitalism as a way of life are bound to accept them. However, whenever one of these workers is being laid off arbitrarily, then something is wrong, the system is not working.

One of such cases is this teacher in the Humanities department, a wonderful person who is an excellent instructor, appreciated by all the students who have taken any English course with her, and even by many that haven't, and is being laid off. Yes, there are many other teachers who are highly appreciated among the students; but the person we talk about is, in many student's opinion, the perfect educator for the job. Why then? Well, let's look at her background. She is one of the few instructors with a Philosopher Doctor status at this University, she has published several books dealing with American Literature, speaks Spanish close to perfection, and understands French, Lebanese, and some other languages fairly well. She is ex-

tremely well mannered, kind, and was always very concerned about her students.

And so one wonders, as this teacher has that many educators with a similar background that they base the matter of choosing on something else? Do they really read our teachers evaluations? Can the University afford to lose such an asset?...Can we? That is probably anybody's guess. Meanwhile, Connie Kihyet is teaching her last trimester at Riddle. But surely, this will not be her last trimester as an educator; hundreds of Universities would fight over the opportunity of having Dr. Kihyet working with them.

It is a shame that so many students to come will not have the opportunity to learn from Dr. Kihyet, but we are sure that they will hear about her...as we heard...

Dr. Kihyet, you will leave us

with a void that no other teacher could ever fill, because it is not only your mastering of the art of teaching that all will miss, but most importantly, it is your kindness, your friendship, your love, that will stay in every one of us who met you, so please, leave with your head held up high, because we will never, never forget our teacher, our precious Connie Kihyet!!!

Jose I. Jimenez
Alina M. Alamo

Thanks

To the Editor:
On behalf of my Dorn II wing, I would like to thank Mike, Rusty, and the Epicure Staff for the help and support you gave us to make our picnic barbecue a success.

Chandu Kuntawala
Box 3215

the avion

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Klyde Morris

wes oleszewski



AMT clarifies the confusion of engine repair process



Maintenance Corner
By Ed Raymond
Assistant Professor AMT

reworked completely or exchanged. It may have reached the manufacturer's recommended overhaul time or, for many other factors, it may not. Nevertheless the owner must ask himself which route to take to keep his aircraft airworthy. There are at least four choices available and to lend some comparative objectivity, let's use one popular engine, the AVCO Lycoming O-320-E3H, used in the CESSNA 172, among other aircraft.

New. A new engine is just that. Parts installed during assembly of this engine are of production line quality and have seen no prior service. As of July 1, 1982 this engine would cost \$19,048.00 outright; with a trade-in engine, the owner would part with \$9,192.00.

REMANUFACTURED: An engine meeting this definition is an engine that has been accepted by the manufacturer as a trade-in and has been carefully inspected and reassembled, using some original parts (crankcase, crankshaft, maybe) that have met all critical new limit criteria. It has the quality of a new engine, comes with a zero-time logbook, and carries the same warranty as a new engine. This particular O-320-E3H would cost \$8,048.00 assuming, again, a trade-in engine. (1 July '82)

At long last, the FAA (15 October 1982) has shined some light on the definitions of the owner's two remaining choices: rebuilt vs. overhauled. Both definitions found in FAR 43.2 read essentially the same - with one obvious difference.

REBUILT: In describing what is

meant by rebuilt, it is probably best to quote verbatim the applicable part of FAR 43.2.

"Describe an item as being rebuilt, the item must be disassembled, cleaned, inspected, repaired as necessary, reassembled, and tested to the same tolerances and limits as a new item using either new parts or used parts that either conform to new part tolerances and limits or to approved oversized or undersized dimensions.

OVERHAULED: If we examine the FAA's definition of "overhauled," as quoted, one glaring distinction stands out: nothing is mentioned about the quality of any given part to regard to limits and tolerances.

To describe an item as being overhauled, the item must be

disassembled, cleaned, inspected, repaired as necessary, and reassembled using methods, techniques, and practices acceptable to the administrator. In addition, it must be tested in accordance with approved standards.

Since most engine technical manuals concerning engine limits contain two columns, "NEW" and "SERVICE," it becomes obvious that the "rebuilt" engine, repaired under criteria established by the "NEW" limit column should be of higher quality than the "overhauled" engine possibly repaired under the "SERVICE" column concerning the same part(s).

As an example, taken from a Teledyne Continental manual, which shows the allowable

clearances between an exhaust valve and its guide in the cylinder head. This example would stress that a much more stringent limit is demanded for a "rebuilt" engine than that prescribed for an "overhauled" engine.

It would be impetuous for anyone to quote prices for either "Rebuilt" or "Overhauled" repairs because no one knows what is in need of replacement until a complete inspection of all parts has taken place.

It is hoped that this article will clarify some of the terms that are used by the industry in describing their repair process. Of course, each term used by a repair agency is only as good as the integrity, or lack of it, of the agency concerned.



Space Shuttle Challenger lifts off for its second mission. It was the seventh shuttle mission. Sally Ride was the first American woman astronaut aboard this mission. Ride was the mission specialist along with John Fabian. (NASA Photo)

Payload modules to launch a series of satellites from Shuttle

HUNTINGTON BEACH, Calif., May 26, 1983 - The U.S. Air Force Space Division plans to use 28 McDonnell Douglas Payload Assist Modules (PAMs) to launch a series of navigation satellites.

The highly accurate Navstar Global Positioning System (GPS) satellites are scheduled to be launched from the space shuttle in the late 1980's.

The multi-million dollar, multi-year contract nearly doubles the number of PAMs on order, either for shuttle missions or as a third stage of the McDonnell Douglas/NASA Delta launch vehicle.

To date, 10 PAMs—all carrying commercial communications satellites—have been launched, the latest two from the space shuttle last fall.

The Air Force contract currently under negotiation is for the PAM-DII, recently announced by McDonnell Douglas Astronautics Company, to handle payloads in the 3500-pound (1588 kg) range, with a growth capability up to 4000 pounds (1814 kg).

The GPS satellites will provide highly accurate locational information to anyone with a simple

receiver. The user will be able to determine his position to within 52 feet (16 m).

Potential worldwide civilian users include commercial shipping, air traffic and search-and-rescue parties.

The measurements will be based on the triangulation of signals from at least three of the satellites, which will be placed into 12-hour circular orbits approximately 12,500 miles high.

PAM is a company-funded commercial program, developed to provide an "upper stage" for the space shuttle and for Delta.

As the "truck" of the U.S. space program, the shuttle orbits the earth about 170 to 795 miles (283 to 1275 km) high carrying a variety of payloads on a combination of satellites destined for higher orbits require a separate launcher.

Although, more than 75 firm or potential PAM missions have been identified through the next seven years, with three configurations available to handle the majority of anticipated payload requirements. PAM-DII falls in the mid-range of the three. The small PAM-D, which has been used in all PAM missions to date, has a 2750-pound (1253 kg) Delta-class payload capacity. The PAM-A

(Atlas class) is designed for larger payloads weighing up to 4000 pounds (1996 kg).

The PAM-DII will utilize avionics and certain other systems developed for the original PAM-D, but will require a redesigned cradle. The most significant change is in the motor, an adaptation of the improved Performance Space Motor produced by Thiokol Corp. The motor will undergo a qualification firing program leading up to first flight availability in May 1985.

The Air Force Space Division contract will bring to 58 the total number of PAMs given firm assignments. Of those, 30 are civilian missions in a combination of shuttle and Delta operations, with customers to date including Hughes Aircraft Company's Space and Communications Group, RCA, Western Union, AT&T, Ford Aerospace and Communications Corporation and Aerospaciale.

In its initial 10 missions, the world's first commercial launch vehicle has placed in orbit a variety of American and foreign civilian communications satellites: SBS-1, 2 and 3; RCA-D and -C; Westar IV and V; Insat 1A and Anik-D1 and -C3.

Burger video game hits market

Americans have a passion for hamburgers. Not only do we eat more than 3 billion pounds of ground beef a year, but we help one major fast food operation alone sell more than 10 million hamburgers a day. So it shouldn't be surprising that our love of burgers transcends mere machine activities.

Witness the popularity of BurgerTime, one of the hottest arcade games of the year, where burgers, lettuce and home made toppings and hot dogs are the bad guys. Now, in response to further demands by America's burger-

lovers, this summer Mattel Electronics is introducing BurgerTime for video game systems, home computers and as a hand-held electronic game.

Ready for BurgerTime? You are the chef running around a maze to construct hamburgers. This would be easy, of course, if it weren't for the "nasties" - hot dogs, pickles and eggs - that are out to keep you from building your burgers. If you can't manage them, well, you're by building burgers and squashing the nasties with power of the hamburger. You can

earn extra pinches of pepper by gobbling down cream, coffee, ketchup or french fries. When you successfully build all the hamburgers in one game, you move on to the next maze. When you complete all the mazes, you start over again, but at a more difficult level.

You can snack on these burgers - calorie free - if you have the Aquarius Home Computer, IBM-PC, or Apple II Personal Computers, or the Intellivision video game system or Atari 2600 VCS, or Mattel Electronics' hand-held BurgerTime game.

SHUTTLE (continued from page 1)

ions, but NASA maintained a "green for landing" schedule until just an hour and a half before the shuttle's de-orbit was to begin.

At 2:30 a.m. NASA postponed the landing at KSC by one orbit on the advice of John Young, Florida's favorite non astronaut and STS-1 commander. At 4 a.m. the shuttle was visible to the sky fully illuminated peas on its 94th orbit. A speeding flicker of light, the view was greeted with applause and shouts of "Come on down!" by the coffee-drinking, bleary eyed press. NASA announced that at 7 a.m. a decision would be made as to the future of the KSC landing as low clouds and fog began to roll into the Titusville area.

As the final go-no-go decision grew nearer, the fog grew thicker and thicker until a light rain

became perceptible. The members of the press, aware of the visibility minimums, grew more disheartened as John Young accelerated the Gulfstream II shuttle simulator to full power, rotated at the runway's midpoint, and disappeared into the low clouds. Of the several thousand media representatives on hand there were very few skeptics, however. Most everyone claimed a working knowledge of the Florida coastal weather and forecasted clearing skies shortly after daybreak with an orbiter landing as planned.

But deep inside it seemed everyone knew what the final decision would be. The sinking feeling was confirmed as shortly after seven when Mission Control broke the bad news; the Challenger would land at the Edwards AFB

lakebed. Crestfallen and disappointed the press began interviewing each other. Technological history had been reduced to a human interest story of a long night and various expressions of disgruntlement.

The 9 am landing of the Space Shuttle Challenger at the California runway was complete perfect and was viewed by all the press on television. The small crowd on hand in California for the landing indeed received a command performance. The crew departed the orbiter as they entered its smiling and waving. Described as one of the happiest crews ever to be launched into space, Crip, Fred, Sal, John, and Norm returned to earth to take their place among the aviation legends that preceded them.

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Sports Editorial

Intramural softball playoffs questioned

by David Frost
Sports Editor

The temperature has been rising in recent months and so has the action in the sports world. Major League baseball and intramural softball have had some interesting developments occurring among the major sports. You may say, "Intramural softball?" yes, intramural softball.

The intramural softball season on campus has come down to one team playing 3 games on the final day of action. In order to win the championship, a team will have to win a playoff at 5 p.m. and at 6 p.m. If they win those games, then they will have to play the championship game at 7 p.m. This seemed a bit much to me so I questioned Ed Wurzbeck of the recreation department about the logistics of this. He commented "older men play in softball tournaments that consist of 10 to 15 games in one day". To play 3 games in one day still seems like a lot to me, especially with a test the next morning scheduled.

I also had some questions about how the teams were paired off for the playoff games. Most people would think that the teams with the better regular season records would have the easier draws in the playoffs. Not in this league. All the teams were put in a hat and drawn out randomly. I asked Wurzbeck about this and he said "the records are not really a good indication of how good or bad a team is. They are very deceiving." Is an 8-0 record deceptive?

Looking at Major League baseball, the American League has finally had something to cheer about after the annual All-Star game. They beat the National League 13 to 3 in case you have not been interfacing with the rest of the sports world. It was certainly a great victory. My favorite part was when the announcer said there has never been a grand slam hit in all-star competition and Fred Lynn hit one on the next pitch. I always shudder whenever they say something bad about a person. An example of that was when they were commenting on how many errors N.L. second baseman Steve Stear has made this year and he turned around and committed an error. I wonder if we could get those guys to say it was raining money outside.

Has anyone ever imagined the World Series being played without the American national anthem being played? It could very well happen with the Toronto Blue Jays and the Montreal Expos currently in first place in their respective divisions. If they both make it to the World Series, they would probably just play the Canadian national anthem. That is an interesting comment on the national pastime. I guess if American teams can win the Stanley Cup then it would be all right if a Canadian team won the World Series.



"I WISH LARRY WOULD JUST WRITE HOME INSTEAD OF HOLDING UP THOSE SIGNS AT HIS SCHOOL'S BASKETBALL GAMES."

Bowling

D & S take over first place in standings

The past three weeks have seen a lot of moving around although first place only changed hands once. The 'Money Changers' held first place for one week only to give it up to 'D & S' of which is currently in first. Second place is held by '6-ULDY-8's' and 'Slow Leak' holding third.

A lot of great games and series have been bowled in the past few weeks! The week of June 13th had six 200 games. The two highest were by Steven Helms with 242 and yours truly with a 211. Todd Perzanoski had a 200 and 201. Other 200's were by Charlie Johnson, and Roy Owen. High series was held by Todd Perzanoski with a 560, Steven Helms with 543 and Charlie Johnson with 524. Girls high games were by Becky Robertson with a 182, Julie Rankin with a 175 and Steve Armarong with 173.

The week of June 20th had Joe Golinaki with a 211 and 202 for a great series of 563. Todd Perzanoski had a 217 and another

great series of 566. Honorable mention goes to Kevin Shady for his all time high game of 172. Great going Kevin! No lads his high games were turned in for this week. Come on girls, you can do it.

In the week of June 27th, Julio Pacheco had a real nice 225, and tie for second place in high series with a 605. Charlie Johnson, also had another nice game with a 212. Jo Bean comes in with ladies high games with a nice 179. Bowling was cancelled for the week of July 4th, therefore standings remain as follows:

1. D & S	20-8
2. 6 ULDY-8's	19-9
3. Slow Leak	17-11
4. Francisco's Kids	17-11
5. Officers & Gentlemen	17-11
6. Turbo Power	17-11
7. Money Changers	17-11
8. The 'A' Team	13-15
9. Vets Club	9-19
10. Overland Bandits	8-20
11. Lion's Angels	8-20
12. Wing Nuts	6-22

Nomad coach may pitch at Kanas U.

Larry Brown, formerly coach of the New Jersey Nets, has quit his job to become head basketball coach at the University of Kansas.

Brown, who will become only the sixth basketball coach at tradition-rich Kansas, takes over for Ted Owens. After a second consecutive losing season, Owens was dismissed after 19 seasons in

which he posted a 348-112 record and two Final Four appearances.

A basketball gypsy in the truest sense, Brown leaves a very successful stint as head coach of the NBA's New Jersey Nets. The Nets had a 47-29 record when Brown resigned, and the team had clinched a playoff position.

In the second season of a three-

year, \$600,000 contract and with the Nets playing the best basketball in the history of the franchise, Brown appears to have settled in at Jersey Meadowlands.

Brown disclosed that he learned an admirable respect for the Kansas program from his former North Carolina coach Dean Smith. Brown said Smith taught him the

Kansas job is a special one, and he (Smith) "always talked to me about Kansas — the tradition, atmosphere, and history."

Throughout his recent years as a vagabond coach, Brown has built a record of winning at each level he has coached.

See COACH, page 7

Sports shorts

FRISBEE GOLF

Brian Bellrose won the First E-RAU Frisbee Golf Tournament, tossing a fine 28 over the par 27 nine hole course. Scott McCready and Brian McKlemm tied for second with 30's. The course is set up across from the Dorm 2 area so practice your tossing in preparation for the Second Frisbee Golf Tournament set for July 18th. Sign up begins July 1st.

BILLIARDS

Tuesday, June 14th, Bill Riggs won the Summer A Billiards Tournament. Bill is a Junior in the Computer Science Program from Commack, New York.

Runner up was Richard Troiano. Richard is a Sophomore from Farmdale, N.Y. Everyone enjoyed themselves with the winners taking home a trophy.

Thanks to all who participated in the tournament. Keep your eyes peeled for Summer B tournament Thursday, August 4.

BEGINNERS TENNIS INSTRUCTION

This class is only for those who have no previous experience or very little. The class will be held on Monday/Wednesday 8:30am-9:30am, starting Wednesday, July 6 at no charge. Sign up is presently go-

ing on at the Recreation Office. Each participant will need a racketball and 1 can of balls.

RAQUETBALL SINGLES

Sudden death tourney all in one night.

Sign up is going on now through July 12 or until the first 16 people sign up. The single elimination contest will be July 14th starting at 5pm. Cost is \$1.00. Open to all.

ROCKERS WIN BASKETBALL CHAMPIONSHIP

The Rockers basketball team led by "Slim" Andrews won the E-RAU intramural basketball championship by steam rolling all the opposition en route to an undefeated season. The Rockers are to be congratulated not only for their fine play but also for their excellent sportsmanship. Other

players on the Rockers team are:

"Slim" Garrett Andrews
Dwaine Mitchell
Roger Peart
Willie Patton
Steve Bostic

E-RAU Daytona Beach Astro's Night — July 21st, tickets are available in the Recreation Office beginning July 1st at .30 each. Open to all E-RAU faculty, staff or student.

FRISBEE DISTANCE CONTEST

Sign up June 27 - July 12 noon. The contest is July 12 at 5pm. 4 CORNER VOLLEYBALL - Sign up now through July 12. Contest is July 19 at 5pm.

There will be a meeting of all captains on July 14th at 5pm in Faculty/Staff Lounge. Your team is to play 3 other teams each on 14 of a volleyball court. You must defeat the 3 other teams to win your match.



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Pilots Kneeboard	Reg. 18.98	15.00
Course & Mile Gage C-4	Reg. 19.99	10.00
ATC Clearers Record	Reg. 10.95	5.00
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Advance Digital Quartz Stop Watch	Reg. 39.99	25.00
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Retrenchment allows update of Riddle administrators

By Holly Vaih
 Recently Shelley Rebecca Robertson was named Associate Dean of Students. Becky received her Bachelor of Arts degree at Illinois Wesleyan University. Her degree is in Mathematics and Business. Becky then proceeded to obtain her Masters degree from Western Illinois University.
 After receiving her Masters, Becky went to Robert Morris College on an internship program and stayed as Head Resident. Becky remained at Robert Morris for one and a half years. Then she became Associate Director of Financial Aid at MacMurray College.
 After another year and a half at MacMurray, Robert Morris College offered her a position as Assistant Director of Campus Life and within two years she was named Director of Campus Life. So Becky returned to Robert Morris until E-RAU offered her the position of Associate Dean of

Students.
 Some of Ms. Robertson's experience includes: orientation, discipline, counseling, budgets, physical management and housing. The responsibilities of the Associate Dean of Students include: Advisor to the Student Administrative Council and the Student Union Board, Student Court Advisor, and Appeals Board student members advisor.
 So far Becky has adjusted well to the Daytona Beach area. She stated, "People here are great at Embury-Riddle, everyone is helpful and personable. The atmosphere here is relaxing." Becky feels there is no need at Riddle to keep a strict professional distance with the students. She is there to help the students to develop within the community.
 Ms. Robertson is the advisor to the Bowling League and hopes to learn to sail and fly. She enjoys playing volleyball and golf.



Becky Robertson joins Embury-Riddle as Associate Dean of Students. (Photo by Holly Vaih)

By Holly Vaih
 A new Director of Student Activities was recently appointed. Donna Cornell, the present Director of Student Activities, is leaving Embury-Riddle on July 15. The new Director is Kathy Novak, the present Resident Life Operations Director.
 Kathy has been with E-RAU for three years, two and one-half as the Director of Commuter Services. Novak received her Bachelor of Arts degree in Human Services from "Baker College" in North Carolina. She is presently attending the University of Central Florida for her Masters Degree in Education.
 Ms. Novak serves on many campus committees, as well as occasionally committees. She is co-chairman of the Embury-Riddle Community Impact Committee and the graduation coordinator for the Graduation Committee. Kathy is also senior class advisor for all senior classes.

Kathy is actively involved in the Daytona Beach Leadership Council and the United Way Allocation Committee. In her spare time, Kathy enjoys fishing, water sports, writing, music and basket weaving.
 Kathy gained her programming experience at Holt College, where she was an Area Coordinator for a 500 student co-ed dorm.
 One of Novak's objectives is to help the Student Administrative Council (S.A.C.) and the other Student Government Association (S.G.A.) divisions to develop their leadership skills. She wants S.A.C. and the S.G.A. to become a more visible and credible to the students.
 Another goal is to get more faculty and staff involved in student activities. The faculty are a major resource that needs to be better utilized. Her major goal is to open up the lines of communication between the faculty, staff and students, so more resources are available to the students.

McDonnell Douglas tests strike fighters and missiles over Pacific

ST. LOUIS, June 21, 1983
 F/A-18 Hornet pilots fired five missiles at target drones and later praised the performance of their McDonnell Douglas strike fighters during the recently completed test at Marine Corps Air Station El Toro, Calif.
 Sixteen missiles — eight AIM-7F Sparrows and eight AIM-9L

Sidewinders — were launched successfully over the Pacific Ocean near the West coast base.
 "The weapons management system coordinated well with the actual firing of the missiles, ensuring the proper intercept and kill of target drones," said Capt. Cliff Wyllie, public affairs officer at El Toro.

"The pilots are extremely pleased with the plane's performance," Wyllie said.
 Helping to guide the missiles during the exercise was the Hornet's APG-65 radar, a digital radar that searches, detects and tracks targets. Both target drone aircraft launched during the exercise were hit by missiles fired by

F/A-18s.
 Since the flight of the first Hornet in November 1978, the F/A-18 fleet has logged over 23,000 flight hours and over 19,000 sorties in operational and test flights.
 The Defense Department recently approved the Hornet for full production in both fighter and attack roles.
 U.S. Navy/Marine Corps intention to procure 1,366 Hornets, coupled with Canada's contract for 138 F/A-18s and Australia's contract for 75 F/A-18s, pushes planned aircraft production past 1,500. Spain recently signed a contract for 72 Hornets.

L-5 celebrates Spaceweek

By Jeff Wolfe
 All across the United States people will be celebrating Spaceweek '83, which begins Friday, July 16 and continues through Saturday, July 24. Pro-space enthusiasts will use this week to commemorate NASA's 25th Anniversary, Man's first lunar landing 14 years ago, and to promote greater space efforts by our government. In light of America's return to manned spaceflight, more and more citizens are becoming involved with pro-space efforts.
 Space week National Headquarters announced in late May that Spaceweek '83 activities will occur in over 100 cities across the country. In Florida, a state-level Spaceweek Coordinating Committee has been planning several activities with the help of regional pro-space organizations: The idea

is to form a permanent network of supporters whose activities transcend an annual one-week event to bring a common national goal of promoting increased involvement in our space program.
 A series of events is planned locally to help commemorate Spaceweek '83. The Embury-Riddle Chapter of the L-5 Aerospace Society has the following events planned for Thursday, July 21:
 "Impact-Florida will be in the University Center during the day with a full line-up of their super laser prints for sale.
 7:00 p.m. - A Model Rocket Flight Exhibition, presented by the Space Coast Rocket Association and sponsored by Estes Industries and Hobbycraft Junction Hobby Shop, will take place on the softball field adjacent to the U.C. Scale models of historic space

vehicles will be flown, and several free model rocket kits will be given away.
 8:30 p.m. - NASA Guest Speaker, Steve Dutzack will present a slide show in the University Center entitled: "Space - The Next 25 Years."
 9:30 p.m. - Midnight - A NASA "Film Festival" will then commence for all to enjoy. If you've never seen the excellent films that NASA produces, you're in for a treat!
 The L-5 Aerospace Society is open to anyone who has an interest in space. Our meetings are every other week and we try to show a NASA film at every meeting. Dues are only \$5.00 a trimester. Stop by our table in the U.C. on Thursday, July 21 - We'll be glad to talk to you

FIDEL (continued from page 1)
 members attended the reception. The Board Members present were: Austin Combs, Kim Scribner and Dr. John Morris. Some Board of Visitors members present were: Julia Vinson, Virginia Vagnozzi, Ogi Butta, Lou Fuchs, Bob Whitfield, Alan Robertson, Fred Wells, Jim McDaniell, Rory Spence and Bert Reames as Master of Ceremonies.
 The music for the reception was donated by the Student Government Association.



Kathy Novak receives a promotion to Director of Student Activities. (Photo by Holly Vaih)

ORLANDO (continued from page 1)
 for departing into thunderstorms was one of them. When pressed on the issue he apologized for the tightness of his schedule and excused himself from the meeting.
 The visiting students were then treated to a tour of the terminal, including a view of the airport surveillance center (home of the 'white paging telephone' voice), and learned that microphones are installed in all sectors of the terminal and that the walls do, indeed, have ears...This is a security precaution to help prevent hijacking activities or otherwise threatening situations.
 The tour concluded with a visit to Eastern Airlines' tower and was highlighted by an opportunity to sit in the cockpit of a 737, Boeing's newest airliner and representative of the electronic "glass cockpit".
 that will soon be the norm for air carriers. The students were given a demonstration of the on-board computer capabilities and observed how Area Navigation (RNAV) systems are programmed and how misted altitudes are performed. The two-pilot cockpit is a far cry from the cockpits of the past as the panel is simply three cathode ray tubes and several basic attitude instruments. The overhead panel, formerly a mass of dials, switches and meters is an expanse of circuit breakers.
 An informative day, The Management Club and faculty advisor, Rudy Knaeb, deserve applause for planning a fine outing and a rare opportunity to get on the inside of what we all like to call the "real world".



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Vets Club camps out

By Seth Trizlik
 Dust off your sleeping bags, dig out that insect repellent because on Friday, July 15 the Vet's Club is going camping. Alexander Springs State Park is our destination for fun and games this weekend. A variety of search and destroy missions are in store for the beleaguered forest rangers that try to restrain the partying on Friday night! The main body of Vet's Club Members will meet in front of the U.C. at 6:00 p.m., sharp, be there!

Regardless of the trouble the Executive Board had to go through, the Firecracker '800 was a successful outing. Everyone working the backstretch concession had a fine time watching the race.
 The Vet's Club softball season is over as of July 6. We finished the season with an astounding record of 1-4-1! Our coach Debbie LeMoine is to be congratulated for doing a good job and for keeping team moral high, thank you again Deb.
 Did everyone see the new display in the trophy case located in the U.C.? You may thank our illustrious Vice-President for his good taste and hard work.
 Members need to start getting together with Regatta committee heads and accomplish some work. Debbie LeMoine who is in charge of publicity and promotions needs your help now. On another regatta note, please remember to save all your one gallon milk jugs to be used as boundary markers during the race.
 The Vet's Club wishes to extend their deepest condolences to Health Services Counselor Linda Bloom on the death of her father. We share in your sorrow and loss; and pray fervently that your father rest in peace.

Classifieds are a free service to the student body

autos for sale

1979 Fiat X/19, 29,500 miles; 5 speed; targa top; runs & looks great! A bargain at \$4000. See us today. Call Cathy, 767-8811. Anxious to sell!

Datsun 510, can be used for parts car. Engine runs but needs some work. Must sell fast. New valve and head has been machined. Needs head gasket and radiator still for \$1200. Call 258-9993; ask for Mike after 7 pm.

Must Sell. 1978 Oldsmobile Royal, excellent condition, maroon green with matching cloth interior. Tinted windows. Power Lax. P/B, P/S, cruise control. Retail \$19,900. Call 441-8222 sun or 252-6491 pm.

For Sale. 1981 Buick Century Station Wagon, white interior, radio, AM-AM-FM radio, A/C, power steering, 6 cyl., 32,000 miles. Like New!! \$6,700. Call from 9 to 9 for more details. Phone 775-9083.

Auto for Sale-1981 Citation, \$5000 or best offer. A/C, new tires, tinted windows, 4 speed. Box 2225, 906 Lora St., Daytona Beach.

For Sale - 1979 Datsun 210. No rust, AM/FM Cassette Radio, Pioneer speakers, Michale radials, 45 interior, PM antenna. Perfect car, must sell soon. Color is white. Very economical. Asking \$3000. Call 255-6781 or contact Elba at the bookstore.

cycles for sale

1979 Kawasaki 750. Hate to let this die go cheap, but I must sell. Saddle bags and windshield included. Don't pass this one up! First \$1,050. Make it away. Call 252-8766, if no answer keep trying.

Motorcycle - Kawasaki 400. Extra clean mechanically sound, includes helmet. \$550. Call Tom. 761-3063.

For Sale - K2200, 4 stroke low miles. \$400, must sell. Call Lisa, 253-2194 or 252-5961 ext 1307.

Motorcycle - KZ 400, 12000 miles. \$725 or best offer. Ask for Wayne or Paul at 788-0200.

For Sale: Do you need dependable and cheap transportation? How does 75 mpg sound for its town travel? This motorcycle is a 50 cc. Yamaha with electric start. Asking \$150 but will negotiate. Call 258-1337 and ask for Dan or leave note in ERAU Box 3437.

1977 Suzuki. 2 new tires and bush, crash bars and back rack. \$500 or best offer. Paul. Box 5559, 252-4800.

1980 Suzuki. Great shape, 11,000 miles on 15 1/2. Comes Jay at 253-6665 or Box 4653.

1982 Honda CB 900 Custom. With extra. Sacrifice. Call 252-3405 after 4 pm.

73 Yamaha 750. Mint condition, oil cooler, excellent 1981, mag, wheels, etc. 79 Honda 750 F Super Sport like new condition. 314 Ora St., 3 blocks south of Seabreeze DR.

Yamaha 650 Special, 1980, 12,000 miles, excellent condition, many extras. Best offer. 253-7170; ask for Mark.

miscellaneous for sale

Windsurf \$330 and Schwinn 10 speed all season \$125 for sale. Call 252-5240, Mac. Tim.

Call 5105 Ten Speed bicycle LTD Edition in white - immaculate \$195. Call Gary 258-0951.

4 piece brown fur couch set, low-backed couch, loveseat and 2 armchairs. \$225 or best offer, ask for Wayne or Paul at 788-0200.

One single bed with frame, one 4 drawer dresser. Excellent deal for \$25. Phone 253-8453.

3 piece curved corner couch. Good condition. \$75. 253-4399.

For Sale: one 6 price desk and one dresser. Low price, contact Mike, Box 3265.

For Sale: Smith-Corona Manual Typewriter \$20, Smith-Corona 400 Electric Typewriter \$120. Full serviced and adjusted. 35-day full size mattress and box spring \$30. 47" Couch - brown plus \$30. All excellent condition. Call 788-7341 or Box 5584.

Bed for Sale - Twin size box springs and mattress with frame. Less than 1 year old. \$160. ERAU-Box 1-260.

For Sale - Sony stereo. Good shape. \$150. Call Lisa, 253-2194 or 252-5561 ext 1307.

Malloy Dual Point Distributor. YL series, brand new in box \$65. For Pontiac V-8, call 253-9933.

For Sale: Telenor Headset - 5 x 5 Pro II. Paid \$180, will sell for \$90. Includes push-to-talk and carry case. Box 6546. Phone Jim at 253-0631.

Benson Cytroscopers for sale. Build and fly them yourself and have a Blast! Call John now at 252-8766.

Cute Mikasa, free to a good home. Call 252-3561 ext 1515, after 5 pm. Call 253-0309.

For Sale: Pit Bull supplies \$35. Pexcell all breeds & white, can be seen at 1222 Linda Lane, Holly Hill. Ph. 258-6033.

For Sale - Heath Portable Digital Multimeter. Model IM-2215. Almost New. Already Calibrated. \$90.00. Box 7266.

6 Piece Drum Set. Symbols and Stands included. Bought for \$1200; asking \$950.00. Contact Axel, Box 1047.

rooms for rent

Roommate Wanted - Brand new apartment, 2 bedroom, 2 bath. \$300/mo plus \$4 utilities. Call Nancy at 767-8577 after 6 pm or 255-1981 ext 228 before 5 pm.

Roommate Needed for a 3 bedroom, 2 1/2 bath Condo in Ormond Bch. \$115/mo + 1/3 utilities. Call 677-2745.

Roommate Wanted - For Fall trimester. Please write to Ms. Robin L Jackson, 1000 Figgerton Ct., Voorhees, N.J., 08043. Male or female.

House for Rent - Near Embury-Riddle, furnished or unfurnished, 3 bedroom, 1 bath, garage. \$320/mo, \$350 security, no pets, available July 15, 1983; 252-7964 after 5 pm.

For Rent - On the water large one bedroom apartment at Cypress Village Apartments. Free the pelicans on your porch. \$313/mo, dishwasher, A/C, pool. Call between 5-7 pm at 253-4399.

Roommate Needed: 2 Bedroom Apt. \$125/mo + \$4 utilities. No lease, no neighbors. 10 Minutes from school, 5 minutes from beach. 559 N. Beach St., Daytona Beach. Call 255-7609 or ERAU Box 6066.

miscellaneous

ENGLISH TUTORING - discount to ERAU students, in grammar, composition, and report writing with a Ph.D. 20 years experience, effective. Call 677-0817, or write P.O. Box 143, Ormond Beach, Florida, 32075.

Need some help selling your car, motorcycle, house, boat or whatever? Advertise in the photostore. Call John, your instant rep., and get a discount now! 252-8766.

Want a First Class Trip? Be an Executive... will fly you where you want in executive twin (up to five people). Aircraft flown by CFI-ME. Cost \$75/hr. for operating expenses. Contact Jim, ERAU Box 7227.

Want to obtain ZX-81 and TS1000 computer owners for possible software exchange and/or formation of user group. Contact Kevin Box 5064.

ATTENTION PILOTS: AVJO Tutoring available. Reasonable rates. Drop a note in Box G-125 or call 788-6929.

Wanted to Buy: Oldsters or Broken Cameras & Accessories. Call evenings of all day weekends. 788-4865

Jazzercise-Engineers to advanced. People looking for Jazz classes or just a fun way to lose weight. For more information call Tekelli, at 767-4022 or drop a note in Box 6021.

personals

Tom, I'm glad the doctor says everything is A-O-K. on your exam. Better luck next time.

THE PREZ

Lisa B., Notams must be issued that you are out on the road driving your own wheels. Thank for the great weekend & I love our in-depth conversations on a very wide range of topics. Love, Decadent Dave.

See you in 7 minutes two days and all systems are still green! Just want you to know that all of us at mission control are monitoring the backup computers and are praying for a flawless and on-schedule departure. We know the delays have been aggravating, but just think how we feel. It's been a long two years of counterproductivity and finally we're psyched that life-off is no close. You know, if we could launch you into weightlessness, we would, and we're sure you'd appreciate it, too. The launch technicians

To All Hardcores: Good to see ya'll again. The best is yet to come. Until we meet on the beach, maintain. TP.

Chris M. - How is your personality developing? Happy Graduation. -Cleanse-

To Chuck, The clinic called "everything's a O.K." From Guess Who

To Janet, Beth, Poozie, Wayne, Larry and Dale, "Fort Lauderdale road trip", think about it!

D.C., if I had to say I'm sorry to see you go but my better judgment of your past actions prevents it. It's been fun and it's been real but it hasn't been real fun. The last 2 years have only been your pleasure. Take-off and maintain your own smile. d.d.

Tom - Tom G. - Surprise! I had a fantastic time. Hope you did too. ALL MY LOVE, N.Y.W.

From Palm Trees to Whose Fields: Theory of relativity - two molecules cannot occupy the same space at the same time. So, let's get together and discuss the possibilities of close encounters and skin abrasion operations. With equal amounts of love and lust. Palm Tree Transplant.

FAA written exams

Embry-Riddle Aeronautical University will administer FAA Pilot Written Examinations on Tuesday, July 19 at 8:30 a.m. in the Common Purpose Room, U.C. and on Saturday, July 30 at 8:30 a.m. in Classroom G-109 & 112. Students intending to take an FAA Written Examination are required to sign up with Kathy Arnold, Extension 1307; in office D-200 prior to examination day. At the time of the examination, each student must present 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 as personal identification an Airman Certificate, driver's license, or other official document. Explanation of application forms and procedures will be given at 8:30 a.m. 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.

COACH (continued from page 4)

Brown has built a history of moving from one place to another, usually to pursue the next higher dollar sign. He has rarely stayed in one place long enough to subscribe to a daily paper. Despite his frequent moves, Brown has established a record as a winner in the coaching profession, with two periods of pro coaching surrounding his two seasons at UCLA. Brown has become a very recognizable name, which when combined with a successful record, will help him to get his new Kansas foot in the recruiting door. Brown will be at a disadvantage coming from the NBA to college less than a week before national letter-of-intent day. But the odds are that the charismatic Brown will be able to make up for lost time on the recruiting trails.

CROSS WORD PUZZLE FROM COLLEGE PRESS SERVICE

ACROSS	DOWN
1 Acknowledge	1 Timetable
5 Off	abbr.
9 School of	2 Command
12 Prevalent	3 Executive
13 Appointment	4 Unwanted
14 Compose pt.	5 Part of 'to be'
15 Allude to	6 Influence
16 Standards of	7 Siamese
17 Repeating	8 Still
20 Moccasins	9 Italian
21 Reaport	10 Dissect
22 Moccasins	11 Ancient
23 Reaport	12 Partisan
24 Moccasins	13 Scale note
25 Reaport	18 Force
26 Moccasins	19 Front
27 Reaport	20 Sumo up
28 Moccasins	21 Passageway
29 Reaport	22 Gaseous
30 Moccasins	23 Companion
31 Reaport	24 Ch. s State
32 Moccasins	25 French
33 Reaport	26 War pool
34 Moccasins	27 Ill
35 Reaport	28 More ancient
36 Moccasins	29 Attraction
37 Reaport	30 Walked on
38 Moccasins	31 San Diego
39 Reaport	32 Scale note
40 Moccasins	33 days
41 Reaport	34 Concoct
42 Wings	35 Sewer's need
43 Flight	36 Having sars
44 Advance	37 Printer's measure
45 King of birds	38 49 Jagers of TV
46 King of birds	39 Pick out
47 King of birds	40 Having sars
48 King of birds	41 Brag

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Where am I?



This picture was taken on the Daytona Beach Campus. It is of something or someplace in plain view of the discerning eye. Entries must be placed in the contest box in the Avion office. In case of multiple correct answers, a winner will be drawn on Friday by the Editor. The winner will win ONE FREE MEAL compliments of Epicure Food Services, Inc.

Radios donated by Cessna Corporation

By All Sander
Avion Staff Reporter
Cessna Corporation recently donated Avionics equipment worth approximately \$20,000. James Ruddell, Department Chairman of Avionics Technology, stated the five nav-comms and two transponders are being used by students in AV340. Equipment has been donated in the past valuing approximately \$200,000.

Ruddell explained that when there is a need for avionics equipment, companies usually donate without hesitation. In addition, the radios are not considered airworthy and would actually be in the repair station in AV341. Ruddell also added that the students will "more or less get to practice on them."

Wilcox awarded FAA contract for ILS

KANSAS CITY, MO. - June 16, 1983 - Wilcox Electric, Inc., a subsidiary of Northrop Corporation, has been awarded an \$11 million contract by the Federal Aviation Administration (FAA) to supply 141 Category I Instrument Landing Systems (ILS) for airports throughout the U.S.

These new systems will be used to retrofit older vacuum tube-type systems, and will be housed in existing shelters provided for the systems currently in operation.

The Northrop-Wilcox systems incorporate the latest-generation solid-state electronic equipment and monitoring devices to improve reliability and reduce maintenance costs. Delivery will begin in mid-1983 and continue through 1985.

In fact, all the avionics maintenance needed by the E-RAU fleet is conducted by the Avionics students. Asked if the Avionics department could use more radios, Ruddell replied "we have a constant need for donated radios."

The world's leading supplier of ground-based navigation aids, Northrop-Wilcox has delivered more than 2,500 navigation systems throughout the world, including ILS, VHF omni-range radio (VOR), distance measuring equipment (DME) and non-directional beacons (NDB).

Upward Bound students gain from E-RAU

By Bill Schook

As the Summer B term began many new faces have been seen on campus. Quite a few of these faces are part of a continuing government funded Upward Bound program.

Fee implemented for FAA exams

Effective Summer B term 1983, the University will institute a \$15.00 fee for the Federal Aviation Administration (FAA) written exam administered on campus. This fee applies to both Flight and Maintenance exams which are offered to students and the general public.

Individuals interested in taking an FAA written exam should consult campus bulletin boards or the Flight or Aviation Maintenance Technology Departments for exam schedules. Please pay the fee directly to the cashier's office and be prepared to present your receipt at the place of examination.

Recent changes within the FAA have resulted in the need for independent organizations to assume the responsibility and cost of ad-

The Upward Bound program has existed at the Embury-Riddle, Daytona Beach Campus since 1970 and has first brought summer students to our campus in 1975, according to Herman Duh, Director of the program.

ministrative written examinations. The FAA's General Aviation District Office in Jacksonville is still offering exams at no charge to a limited number of applicants on a reduced schedule of one day per week. The FAA has indicated they will cease this function entirely within the next few months.

Several other independent examinations are available in the Central Florida area. Each examining authority establishes its own fee and these fees currently range from \$15.00 to \$30.00.

For more information, including a list of other examiners, contact the Flight or AMT Departments of the FAA's General Aviation District Office in Jacksonville, Florida.

Mr. Duh went on to say, "All the students, of which there are 70, come from the Daytona Beach Area." He stated, "They are between the ages of 14 and 18, and are going into at least the tenth grade." He further commented, "The program is designed for the disadvantaged or first generation disadvantaged students."

The classes being offered to Upward Bound students are English, Reading, Algebra, Geometry, Biology and Chemistry. The courses, as pointed out by Herman Duh, "are high school courses given in a college atmosphere to prepare them [the students] for college."

The students, as part of their college experience, are being housed in the university housing facility and utilize the campus food service.

Director Duh stated, "The program here is the only one in the nation to use aviation as a motivator. Each student receives two flights during the summer."

This seems to work as a motivator, for the latest follow-up

report by Upward Bound shows that of 229 of last years program graduates; 91 percent are enrolled in college. The Director of Upward Bound said, "As a program whole, 59 percent of past students are still in college or graduated, and 15 percent are in the military."

One of the program success stories is Andy Zdanowicz, a student at the Naval Academy, and a possible future Naval Aviator. "Hands-on experience here at Embury-Riddle helped make my decision toward aviation," stated Andy on a visit back to the campus. He commented, "I made lots of friends with past students, which really helped." A present Upward Bound student, Joe Novobis, reflected this same feeling, and went on to say, "The students here [E-RAU] are very helpful."

Finally, the Upward Bound program benefits the community, and serves as a community relations tool for the university at no cost. Mr. Duh focused on the fact that, "The Upward Bound program is fully funded by the U.S. Government."

American Red Cross seeks blood donors

By Holly Vath

The American Red Cross will be sponsoring a Blood Drive at E-RAU on Friday, July 15. The Daytona Beach branch of the Red Cross serves 14 hospitals in six Florida counties. This branch is the only station in Florida.

The Red Cross needs 375 pints of blood a week to keep up with the demand from the hospitals. After the Red Cross collects the whole blood, the blood is separated into its components. One pint of blood may be used on four or more patients in its parts.

Whole blood is separated into red blood cells, plasma, and platelets. These parts then have a shelf life of 35 days.

The Red Cross center has the facilities to separate the blood. The blood is put in a centrifuge to separate it. They have 6 full-time lab technicians. The laboratory is open until 11 p.m. so all the blood can be processed rapidly.

The Red Cross schedules at least two or three blood drives a day. They have three mobile blood centers which go to the blood drive location. The major blood donors in this area are college students. In Florida one person in every household is over 65. Older people are the major consumers, while younger people are the suppliers.

To be eligible to donate blood a person must be between age 17-65, weigh at least 110 pounds and be in good health. It only takes 45 minutes to go through the whole process of donating blood. First a small medical check is made. The trained personnel check blood pressure, sodium content, and ask for a brief medical history.

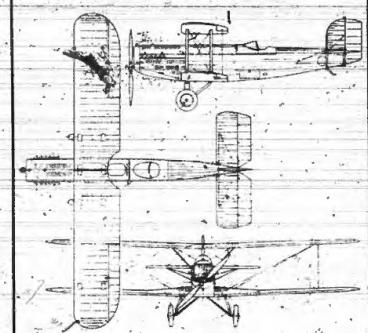
The actual donation only lasts 6 to 10 minutes. The donor then must wait 8 weeks before donating blood again. It is not advised to give blood more than five times a year.

The average adult has from 10 to 12 pints of blood in his body. The Red Cross only accepts blood from volunteers, therefore they don't charge the hospitals for the blood, only a processing fee to cover the expenses of recruiting, collecting, testing, processing and distributing blood and blood products.

The Daytona Branch of the Red Cross also has a pheresis machine. This collects and isolates a specific component of the blood. The specific part is removed while the balance is returned to the donor or patient in one continuous process. This whole process takes about two and one-half hours.

The major idea behind the Red Cross is that the community takes care of the community. You never know when you might need blood. Don't forget on Friday you will have your chance to give to the Daytona Beach community. Give Blood.

Aero-plane Identification



THE FIRST EXACT ANSWER presented to the AVION of the identity of this aircraft will win a free one trimester subscription to the AVION, sent anywhere they want. The Student Publications staff, previous winners, and their families are not eligible.

Fairchild industries opens plant

GERMANTOWN, Md. - Fairchild Industries, Inc. announced today it will start test operations of its new aluminum sheet metal fabrication plant in Columbus, Georgia about September 1 and begin full-scale production January 2, 1984.

The plant, acquired in late 1982, will produce precision detail metal parts for use in assembly operations at other Fairchild locations. Richard Estes was named plant general manager in January 1983, and the plant will be operated by Fairchild's Commercial/Industrial Products Group. Start-up was postponed earlier this year because of softness in several markets served by Fairchild.

Centralizing metal fabrication at the Columbus plant, with its modern, high-performance

machinery, will make the company more competitive in winning new business, said George S. Attridge, senior vice president of operations at Fairchild Industries.

Up to now, detail metal parts have been turned out at various Fairchild plants, but the cost of modernizing each of these facilities would have been prohibitive, he said.

Fairchild selected the Columbus site because of its central location to other Fairchild plants in New York, Maryland, Florida, Texas and North Carolina and favorable transportation costs. Attridge said state and local taxes and available financing and labor pool also were factors. The plant is expected to employ a total of about 50.

The new plant will give Fairchild the ability not only to produce high-quality, precision parts at one

central location, but also to reduce raw material inventory.

An essential element in planning its operation, Attridge said, is the equipment to incorporate electronic communications and computer technology into manufacturing. The company has installed computer-aided design and manufacturing (CAD/CAM) systems at its major operations, and one of the objectives is to link these systems to the equipment at the Columbus plant so that parts design can be channeled directly into the computer-controlled equipment turning out the parts.

This technique is counted on to increase manufacturing precision and product quality while reducing the time gap between design and production and cutting costs - critical factors in keeping Fairchild competitive, Attridge said.

Most of the equipment for the plant is being purchased new, although some machinery is expected to be moved from current sites, he said.

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