

4-11-1984

## Avion 1984-04-11

Embry-Riddle Aeronautical University

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Embry-Riddle Aeronautical University, Daytona Beach, Florida

The award-winning newspaper  
of college aviation

April 11, 1984  
Volume 48, Issue 12



Aircrew Photo by Brian Finnegan

Departing the Operations and Checkout building, Commander Robert Crippen and mission specialist James van Hoften lead. Astronaut chief John Young brings up the rear.

## "Texas Bulldogging"

# Problems beset shuttle, satellite eludes capture

By Brian F. Finnegan

Once again, Space Shuttle Challenger's flawless liftoff was not an omen of success for the remainder of the mission. Bound for a rendezvous with the crippled Solar Maximum satellite, the shuttle and its crew failed in their first attempt to snag the slowly rotating satellite.

Two days into the mission, all was going quite well. The deployment of the Long Duration Exposure Facility (LDEF) 250 miles above the earth's surface was accomplished as planned on day 1. After LDEF's release, shuttle commander Navy Capt. Robert Crippen put the Challenger through a series of thruster firings of varying duration to achieve the target altitude of 265 miles.

The rendezvous and subsequent docking with Solar Max by mission specialist Dr. George "Pinky" Nelson in the Martin Marietta manned maneuvering unit was perfect and within a minute of schedule. However, a failure of the Trunion Pin Attachment Device's (TPAD) latching mechanism prevented

Pinky from achieving the "hard hold" necessary to stop the satellite's rotation.

At this point, Pinky backed away from the trunion pin docking point on the satellite and moored himself to one of

and holding on with only one hand (how could he use both and still hit the firing button?). Pinky succeeded only in exaggerating the Solar Max spin and in fact added an extra gyration to its movement.

By this time Dr. Nelson's fuel reserves were running low and weren't the predetermined "red line" for returning to the cargo bay. As the world watched, live and in color, Pinky returned to the shuttle's airlock and NASA was beginning to implement their Plan B.

Commander Crippen attempted to grasp the falling satellite with the Canadian-built Remote Manipulator System. Unfortunately, because of the unusual attitude of the Solar Max, Crippen was unable to accomplish the task.

Put on hold for a day, the shuttle crew waited for another decision from mission control. Finally, it was decided to make one more effort to wrestle the solar observatory into the cargo bay.

On Tuesday morning, at

the solar arrays extending from the satellite. While holding on and performing what one astronaut termed "Texas bulldogging," Pinky attempted to stop the rotation. Firing the nitrogen thrusters of the MMU

See SOLAR, page 3

# Daytona, Prescott split \$10,000 Bunker donation

By Geoff Murray

The Engineering Department recently received \$10,000, half of which has been utilized for engineering computers. The money was donated to Embry-Riddle and earmarked for the Engineering Department. The remainder of the money was given to the Prescott campus.

According to Mr. Glen Greiner, engineering instructor and Computer Systems Manager, "The money was utilized for additional components to the HP 100 computer now used in the (engineering) dept. It was primarily used for a Digitizer Board."

The digitizer board is an aid in computer graphics. Greiner demonstrated the system in the computer room located on the 2nd floor of the engineering building. In less than 10 minutes Greiner had designed a simple

wing and an aircraft utilizing the board. A data base which includes computer stored pilot and engine diagrams and other common figures was used by Greiner.

"The digitizer board was purchased from Hewlett-Packard for \$2,300, less a student discount," explained Greiner. The purchase also included an 11" by 17" 6 pen plotter, special paper and pens, and other accessories totaling \$1,800. Greiner went on to explain that the remainder of the money was used for "accelerometers for the Dept.'s Cessna 172 and other devices used in the Simulation Lab."

The \$10,000 was donated by Marv Bunker, a Daytona Beach General Electric Simulation and Control Department employee. Bunker received the money through an award open to all GE employees.

The award goes to the person who has made the "most outstanding, innovative contribution to General Electric." The award is called the "George Steinmetz" award and is available to any GE employee. In this case it was for research in the area of image generation.

Usually images generated in flight simulators are grainy and cartoonish. Through extensive research and experiments over the past several years, Bunker developed a process or system that will essentially eliminate the graininess. This thereby creates an extremely realistic picture with no grain cells.

Greiner stated that the money is "greatly appreciated" and that it will assist in the further development of the engineering department's computer graphics area.

# Riddle planes among six violating shuttle airspace

By Max Corneau

Two Embry-Riddle training aircraft violated Federal restricted airspace adjacent to the Space Shuttle launch on Friday, April 6, according to By. Byington, Chairman of the E-RAU Flight Department, National Aeronautics and Space Administration officials stated, a total of six aircraft had violated the restricted airspace

the morning of the launch. Of the E-RAU aircraft, two were cited with violations. One had two students on board while the other was piloted by a flight instructor and student. Byington stated, "We have grounded the instructor until further notice; however, we

have not taken any punitive action against the instructor."

Byington declined to reveal the identity of the instructor involved.

Aviation Safety Engineer, A.C. Tacker also declined to reveal the names of personnel involved. He furthered that this was the first time any E-RAU aircraft have ever violated the Space Shuttle's airspace.

Tacker gave possible attribution to the cause of airspace violation. "There's always a one-day NOTAM [Notice to Airmen] during Space Shuttle launch and recovery. This time we didn't post any special notices to steer clear of restricted airspace 2001 during

launch day. The weather room did not have the NOTAM that restricted the airspace from the surface. Maybe the instructor and students checked NOTAMs but did not get the one relative to the launch."

Tacker continued by explaining the role of the weather room as a teaching aid for meteorology students. Byington echoed the thoughts of the Safety Engineer, "The weather room is a convenience for us. It's as a customer, not as the final word. Our pilots should always check with Flight Service."

At the post-launch press conference

See VIOLATION, page 3

# AIRLC construction slated for July ground breaking

By Jonathan Russell  
Avion Staff Reporter

Construction of the new Learning Resources Center is expected to begin during the first part of July according to Mr. Charles Fountain.

Fountain is the Director of Business Administration and has been put in charge of overseeing the construction of the new library and contracting the necessary people to do the work. A total of four contracts are being assigned for paving, electrical work, irrigation and landscaping.

Phase One of the library construction will consist of building 20,000 square feet of the future LRC. When this occurs, 191 parking spaces will be eliminated. To alleviate any problems this will cause, a new parking lot will be put in on the left side of the E-RAU Clyde Morris entrance, next to the current LRC parking lot, which will hold 395 parking spaces.

Fountain said, "Construction of this lot should begin no later than the last week of May and be finished by August 15, in time for the Fall trimester. Construction of the new Library will mean fewer parking spaces for the Summer trimester, but because of smaller demand for spaces, no problems are expected."

The bike path, which has been discussed often in the past, will be put under construction. The path will extend from

Volusia Avenue to Beville road. E-RAU will install a short bike path that will extend from the one on Clyde Morris to the bicycle parking lot near the current LRC. The idea for this path was originally started by two Riddle students several years ago, and while it might have been slow in the making, it looks like it's finally going to happen.

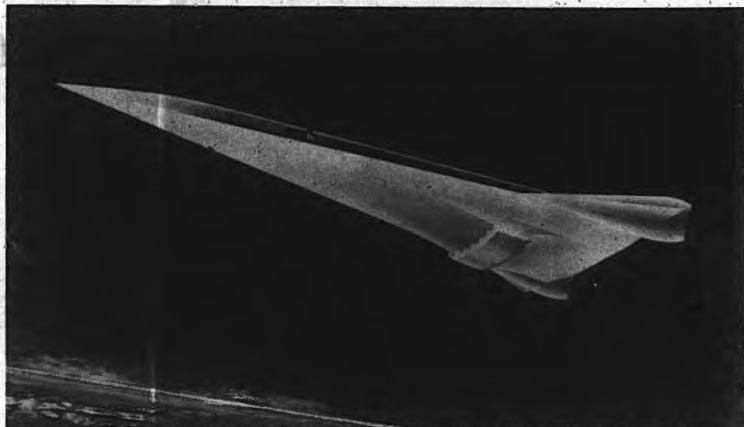
When Phase Two of the library construction gets under way, it will involve tearing out the rest of the main parking lot and turning it into a mall; also, the dirt parking lot between the GRW and the baseball field will be converted into an athletic field.

At this point another 20,000 square feet of library will be added to the previous 20,000 square feet. This addition will be made in approximately three years. Before this takes place another lot will be built to make up for lost parking space in the main lot. The new area will be located in the grassy area next to the GRW complex and the baseball field directly behind dorm II. This lot will hold 425 parking spaces.

If needed, the University can also place a lot in the wooded area next to the Catalina entrance which could hold 350 parking spaces.

overall plan of the University is to have peripheral parking. This means taking out the main parking lot and replacing it with smaller lots located

around the central part of the campus. In some cases this will mean a longer walk, but because we have what Fountain calls a "walking campus," where you can walk to any place on the campus in about 5 minutes, this is not expected to be much of an inconvenience.



An advanced strategic reconnaissance aircraft capable of travel at 12 times the speed of sound and earth orbit as high as 1,200 nautical miles, as shown in this McDonnell Douglas Corporation's rendering, could become a reality in

the 21st century if the necessary technology readiness programs are pursued by the federal government. Substantial strengthening of NASA technology research and development budgets is necessary to meet future U.S. needs.

# Guest Commentary Let's turn things around

I was shocked and surprised when I read the editorial entitled "Janice Stay Home" (Avion, April 4). Not in a long time has anybody spoken out against something the SGA is doing that is not right. There is no reason why we should pay to send Ms. Lowell to Prescott when she does not have the authority to vote on student issues. Sending her would be politically useless to us, the student body.

Ms. Lowell seems to overestimate her importance to us as a "Lame Duck" President. Ms. Lowell has also shown rudeness and inconsideration toward her student peers. For example, during pre-registration, Ms. Lowell, strutted right in front of me and gave her registration form to the lady checking names and times. SGA reps (among others) have an open registration time which means they can register at their earliest convenience. This is because they make their schedule out around meetings and duties they have to perform and they "must" get the schedule they request. However, Ms. Lowell's official duties as our "President" are over this trimester and thus, I don't think she should still have the privilege to register ahead of everybody. But this isn't what burned me. It was the way she just cut in front of the line to register, and the line was only 3 people long. Surely our fastest leader could have waited for 3 people to proceed her through registration or maybe she feels that she is such a VIP, that she can cut in front of everybody else (all 3 that is).

It seems alot of people agree that the SGA no longer represents the feeling and voice of the student body. I know for a fact Ms. Lowell doesn't represent my feelings on student issues. We have lost confidence in the SGA because they do things to disappoint us as due paying members of the "association." The sorry point is that these disappointments are met with apathy from the student body. There is a feeling that the SGA is going to do what they want, no matter what we say, so why waste our time complaining. I should like to congratulate the Avion for taking the time and pointing out to the student body something that was wrong and as unfair to us, as sending a politically useless person to Prescott, who in my opinion doesn't come close to representing the students' opinion. How could our President pompously answer "no comment" when asked about important student issues?

I feel that the current group of Avion members more closely represent what the students stand for. They at least tell it like it is, Tony Pinto exemplified this when he reported on the \$10,000 spring flog. Bravo Tony for telling us what we should know. I admitted Tom Conrad for advertising so extensively even though he was running unopposed. I hope he can carry this same enthusiasm over into his term as our new SGA President. We need an SGA which we can have trust in and work with. Let's hope Tom is the person to turn things around.

Ray Casey  
Box 5623

## The Avion Staff wishes all students a safe and happy summer.



## the avion

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## letters

### Thank you students

TO ALL THOSE THAT worked the gates at the SKYFEST:

You all were a great bunch of young adults to work with and you all did a great job! The experience gained the first day was really helpful the second and so; a very special thanks to those of you who braved it both days!! I don't remember all the names, but THANKS to Oscar, Lia and all those two-day workers!!

LaVerne Martinic  
 SKYFEST Chairman - Admissions

fund raisers. The thorough news coverage in the Avion was most informative and certainly created interest and enthusiasm in both the programs and special events of the Easter Seal Center.

Thank you, E-RAU community. Mary Harowski, Carolyn Foley and Robin Edson Community Relations Department Easter Seal Society

### Skyfest Thanks

To the Editor:  
 My family and I recently attended the "Skyfest" at Daytona's Airport. It was an event that we shall never forget.

In this letter I would like to express to all the students who worked at the airshow, what a fine job they did to help the show run smoothly. All of the students were neat, courteous, and very informative.

Students, please stay the gentlemen you are and good luck to you.

Nancy Howard

### Easter Seal Society

To the Editor:

During the month of March, the students, faculty and Clubs of Embury-Riddle Aeronautical University have supported Easter Seals with donations totaling over \$3,200.00. On behalf of the physically disabled children and adults of Volusia and Flagler Counties, the Easter Seal Society would like to thank all those who so generously supported the 24-Hour Beach Run, sponsored by the E-RAU Running Club and Sigma Chi Fraternity, who sponsored the Spirit Roll.

The proceeds from these events will be used to not only maintain, but also to strengthen, the rehabilitative services available to the physically disabled of our community.

A special thanks to the staff of the Avion, who provided first hand coverage of these

served to introduce most of the crowd. It quickly became impossible to enjoy the show amidst drunken hooting and raucous behavior. The noise level, even while people were performing, was intolerable.

The sound mixing was dismal. Feedback, rumble and muffled sound punctuated the abysmal production. This is no mean feat for someone working with a 16-channel mixing board with equalizer. The second act, EFX, even had to stop in mid-song because the feedback was so bad.

Contrast this gathering of 150 or so fools (myself included) to the 1983 Prescott talent show which I attended; the applause from the 350-plus people in attendance was both generous and sincere, the show was well or-

chestrated and the sound mixing far surpassed what I heard this past Wednesday evening. It was well worth the dollar charged for admission.

Some might argue that people are supposed to over-imbibe and "blow off steam" at such a show. This is wrong. If these people want to drink and bust and baffle, let them go to one of Daytona's many drinking establishments; not a talent show. I feel sorry for the brave performers who had to go in front of such a stupored crowd in such poor circumstances.

Student productions such as these explain why attendance is so sparse. Certainly a few of the 5,000 students in attendance here are capable of a better job. Kurt Naas  
 Box 3285

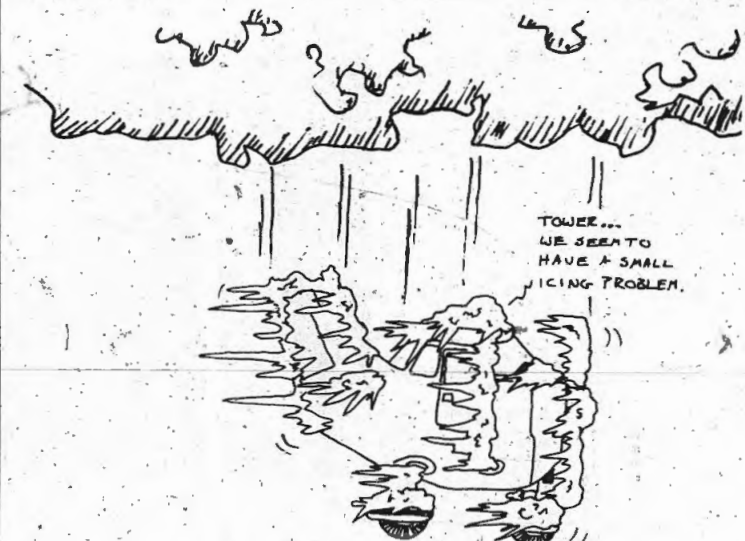
WHEN YOU FIRST JOIN THE AVION YOU'LL THINK IT'S HOURS OF FASCINATING WORK, AND JOURNALISTIC ADVENTURE. IT'S MUCH MORE THAN THAT!... IT'S ALL THE WHITE-OUT YOU'LL EVER NEED.

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## SQUAWK 7700

## bill myers



# Doc discusses marbles, Italian wines, and cars



them in protective lead bags.

**DIET:** Repeated crash dieting can increase the chance of heart disease. The faster weight is lost from the body, the faster it tends to go back on. It is this rapid accumulation of weight that results in higher levels of blood cholesterol. Quick weight gain also accelerates the rate at which cholesterol is deposited in the blood vessels.

**LOVE:** Sex without love is unenjoyable and unacceptable, in the opinion of 29 percent of the men and 44 percent of the women in a recent survey. (In 1969, only 17 percent of the men and 29 percent of the women felt that way.) The ingredients of love: Friendship, affection and intellectual compatibility.

**SLEEP:** Napping won't bother your nighttime sleeping if it is done correctly. Keep your naps short, about 10-20 minutes. This clears your head without making you drowsy. Try to nap at the same time every day, so your body can accommodate the nap into its rhythms.

**JOB HUNTER'S SUCCESS GUIDE:** These factors influence hiring decisions. Very Positive: Trim. Team player. Assertive. Active. Positive. Married. Parent. Hilarious. Attractive. Neutral: Single. Wife works. Divorced. Short. Negative: Quiet. Has worked for only one company, or only for small places. Very negative: Overweight. Too many jobs.

**LARGE AMOUNTS OF LICORICE** may be hazardous. The chemical in licorice resembles steroid hormones and can have the same ill effects if you eat too much. How much is too much? You'd have to eat over two pounds a day for licorice to be harmful.

**HERPES:** Smallpox vaccinations for herpes don't help, and

they can be dangerous. Basic rule: Have a smallpox vaccination only for smallpox.

**A SAMPLING OF Italian wines:** Most popular are Lambrusco and Soave, which are staples at most restaurants and cocktail parties. Sparkling wines: Ferrari Brut, made laboriously in the mode of champagne, \$16/bottle. Less expensive entry: Caviti Brut Brut, \$7. Good red wines: Barbera d'Asi and Barbera

d'Alba. Both go well with robust foods: Top vintages: 1978, 1979, \$5-6. Barolo, the wine of Kings, \$9-14. Rubesco, a full-bodied wine. Best years: 1971, 1974 and 1978, \$6- or slightly more.

**RUN:** three beers a day may control cholesterol as effectively as jogging, according to recent research. Moderate beer imbibing seems to increase the body's high-density lipoprotein (HDL) the type of cholesterol

linked with reduced heart disease risk. Moderate exercise also raises HDL levels. The benefits appear to be either/or: Joggers who take up beer drinking do not register higher HDL.

**LIGHT:** A lost contact lens can be found by darkening the room and aiming a flashlight over the floor. The lens you're looking for will sparkle as it reflects the light.

**AMERICAN CARS** give better value, performance and quality than Japanese cars, a plurality of Americans now feel. A recent poll shows that 44 percent believe they get more value for their money from an American car, whereas 41 percent favor Japanese cars. Contrast: Last year, only 18 percent voted for American cars, compared with 49 percent for Japanese cars. Is the 14 point swing in opinion backed by higher American car sales? Yes, in the midsize and large cars. But imports still account for 30 percent of the car market. In 1982, the Japanese sold 1.8 million of the total 2.2 million imported cars.

**REDESCOVER MARBLES** with a set of one hundred shooters, cleaves, swirlies and cat's eyes in a wooden box. Rules for several games are included, in case you have forgotten. (Sethsonian Institution, Box 2456, Washington, DC 20013, \$9.50).

**CLEARING AIRPORT** security: 1) Don't pack anything that even remotely resembles a weapon-including scissors or a picnic knife. 2) Leave some room inside carry-on baggage. If inspectors open it, it will be easier to repack. 3) Pack gifts without giftwrap so they can be seen. 4) Carry film and loaded cameras in a separate bag for hand inspection unless you keep

## PEX maintenance opportunities

**PEOPLE EXPRESS AIRLINES**  
Our maintenance team is looking to hire Maintenance Managers on three levels, A&P Customer Service Manager, Maintenance Manager First Level, and Maintenance Manager Second Level. All three positions require airframe and powerplant licenses and the ability to exercise self management.  
A&P CSM: The positions of an Airframe and Powerplant Customer Service Manager starting salary is seventeen thousand a year with a raise to nineteen five, plus eligibility for profit sharing the second year. Along with the requirement for airframe and powerplant licenses the applicant should have at least one year of work experience dealing with the public or in aircraft maintenance. The Airframe and Powerplant Customer Service Manager will work in one of three major areas, Ground Operations, Reservations and In-flight, (Flight Attendant) when working as a Customer Service Manager. When working as a Maintenance Manager the A&P will work with an experienced Maintenance Manager in any one of several areas, examples of some of these work areas are supervising flightline maintenance on turnaround aircraft, working up cost estimates on part repairs, and redesigning and developing changes to aircraft interiors.

**MAINTENANCE MANAGER 1ST LEVEL:** The starting salary is twenty-two thousand a year with an increase to twenty-six, four thousand plus eligibility for profit sharing the second year. The minimum requirements are current airframe and powerplant licenses and four years military aircraft maintenance experience or three to five years civilian aircraft maintenance experience. Although a college degree is not required, an associate degree or four year degree is preferred.

**MAINTENANCE MANAGER 2ND LEVEL:** Starting salary is thirty thousand a year with an increase to thirty-six thousand plus, eligibility for profit sharing the second year. The requirements are five to ten years flightline experience on 737, 727 or 747 aircraft and preferably experience on two of the three aircraft.

If you are interested, please pick up an application at the Career Center and be sure to submit the application, resume and transcript to our office no later than Friday, April 13th. There is a possibility they will close on campus.

## VIOLATION

(continued from page 1)

ference last Friday, NASA officials responded to questions about unauthorized intrusions. Hugh Harris said, "There were six aircraft intrusions; very strict measures will be taken against all of these pilots."

Jim Utzman, another official, was questioned about the identification procedure of intruding aircraft. "Two FAA aircraft are used to identify the

tail numbers; the aircraft are based in Atlanta. Since it's Federal Aviation Administration airspace, they're responsible for patrolling it."

Intercept procedures for this launch differed from that of other launches. "The FAA used a different patrol pattern this time. Utilizing Air Force radar, they were able to follow the aircraft down to the ground," furthered Harris.



## SOLAR

(continued from page 1)

8:27, the crew will rendezvous once again with their elusive target. Ground control has stopped the erratic rotation of the satellite and regained the 1 deg./sec. spin. Had this not been accomplished, Solar Max's solar arrays would not have been properly aligned with the sun and its batteries would have been depleted within 6-8 hours.

Obviously, NASA was highly successful in this mission. The attractiveness of the Space Transportation System to commercial interests would have been greatly enhanced with an "as planned" scenario. But, the glitches encountered during this mission do not necessarily rule out future commercial endeavors. This mission is pointing up the problems to be encountered in any space rescue attempt. NASA's ability to react impromptu methods to deal with each individual problem is as much a factor in determining the viability of the space shuttle program as its ability maintain a tight schedule

## Weapons of death

Skyfest "84"

"Today I'll see Skyfest '84"  
I said to myself as I went out the door  
I will spend four dollars and more  
To peer in awe at mans weapons of war.

There sat the planes made of aluminum and steel  
Everybody was awed and saying "Wow, are these real?"  
Everybody was trying to touch, trying to feel  
except a child who said "What's the big deal?"

See, around this hole where the paint looks burned  
This is where they put a gun  
Now isn't your feeling a little ruined?  
This plane is for war as well as fun.

"See hanging from the swept wing  
Mom, what do they call that thing?"  
"Son, that's a rail,  
A bomb dropped from it can hit the head of a nail."

"Mom, why do people glorify weapons of war?  
I just wish they could all see the other side of the door.  
I wish they could all talk to Dad,  
They would know this is all really sad."

Blue Angels as they are known,  
Their daring feats they have shown.  
How many of them have been to war?  
How many of them have seen the other side of the door?

How many of them would still stick out their chest,  
BRAG to the young, "We are the Best."  
But then in the same breath  
They would be honest and say "These are the weapons of Death."  
Eric H. Williams, Jr.  
Box 2017

## Last Chance to enroll in certified Bell 206 maintenance course

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Bell 206 Field Maintenance.

W.A. Martin  
Acting Dean, College of Aviation Technology

New Jersey Seashore

Summer months hold promise for these beaches

By Tony Pinto

Twenty-five percent of the Embry-Riddle student body come from the New York, New Jersey or Pennsylvania area and a trip home after the trimester can run into a real exciting time if you take your trip along the shore to your final destination.

If you are going to New York, chances are that you'll be traveling the New Jersey Turnpike into the Newark area to cross one of the bridges into New York state. But this time, take Route 40 when you get over the Delaware Memorial Bridge and depart towards the Atlantic City area. After exploring some of the beaches and casinos, you can get on the Garden State Parkway and travel direct to the Northern Jersey roadways.

Atlantic City lies an hour east of Wilmington, Delaware, a trip that is quite contrasting to the winding asphalt that has paved the way for the North's industrial development. Sorry, none of that in the south!

The New Jersey beaches are very similar to those of Florida. A series of barrier islands that separate the mainland from the ocean stretch along the entire distance of each - what differentiates them though, is that the we have the Mahan River separating the beaches and mainland here in Florida while in New Jersey, a series of marshlands and bays divide the two and are much larger and conducive to marine wildlife.

If you find that the ocean night life is a bit more than you care to participate in, a short trip to Cape May; the Southwestern tip of New Jersey, is sure to please the beachgoers. Here, in a lovely Victorian setting, one can still surf fish and enjoy the uncrowded and unspoiled beaches where the Delaware River meets the Atlantic Ocean.

Traveling around the Jersey Shore, your best days on the beach can be found at many of the following locations: Wildwood is a beach that is host to millions of screaming teenagers who go to escape parental control. You don't need to buy beach tags but car plugs might be a good suggestion.

Though the residents of Long Beach Island deny it, this 18 mile strip of barrier islands had a particular type of pirates that would the lanterns to lure ships on to its dangerous shoals. The ships would run aground, break up and the pirates would take the cargo. Island Beach State Park, which is directly north of Long Beach Island, is said to have the biggest smasher waves to be found on the coast and the quiet type of family crowd that likes both nature and surf.

Sandy Hook National Recreation Area is one of the most difficult beaches to visit. Ironically, it's too easy to find. This beach fills up early with cars until the lot is full, forcing park rangers to close it to vehicle traffic. Most recently noted for a clothes optional environment, your best to get there early.

Cartoonist to appear at E-RAU on April 11th

Anyone who hasn't heard of Bob Clampett by now has been living in a cultural vacuum. Some of the zany, animated cartoons ever made came from Bob's wild and fertile imagination. As a writer-director at Warner Brothers studio, Bob played a key role in the development of the Warner style of humor, and of such classic characters as Porky Pig, Bugs Bunny, Daffy Duck, and Tweety (which he modeled in part after his own nude baby picture).

His cartoons dominated the top-ten lists voted by animation fans, and include such classics as A Tale of Two Kitties, The Sea Hag, Cat on a Hot Tin Roof, and The Great Piggy Bank Robbery.

Young Bob designed the first Mickey Mouse doll for Walt Disney, and then in 1931 helped draw the first Warner Brothers and Merrie Melrose cartoons and

many early Looney Tunes. After 16 successful years, he left Warners to try to start his own studio.

His first TV show, Time for Benny, featured hand puppets of his now-famous cartoon characters Benny Boy, Cecil the Sea Sick Serpent, Capt. Hufferpuff, and Dithonest John. An animated version, Benny and Cecil, was a big hit over the ABC-TV network during the 1960s, and it is presently being seen in over 40 foreign countries.

Bob was chosen as one of the eight great animators of all time by Movie-Scene magazine, was honored in Paris by the prestigious French film body, The Cinematheque Francaise, and more recently was guest of honor at New York's Museum of Cartoon Art, where he carried on their tradition by sketching an autographed drawing on the men's room wall.

A little further south and just north of Atlantic City is Little Beach Island, which is part of the Brigantine National Wildlife Refuge. This island, with four miles of beautiful, unspoiled beach, is invisible from the land and cannot be reached without a boat. What was once a hiding place for smugglers and pirates is now the shore's most secluded, private beach where bathers go as natural without fear of observation. It's best to know someone!

For those who like kite flying, Brigantine Beach, is the place to go. There are 100 many jetties around to enjoy the surf, so if you go the distance to enjoy a picnic on one of the last wild barrier islands, make sure you remember the litter.

On the other side of the state, tucked away on the Delaware Bay, is Hightee Beach. While this beach is not really on the ocean, the waves are gentle, the sand is fine and on a bright day, you can feel as though you've escaped from everything. Nothing near Hightee Beach; it is one of the few places left where as the sun turns westward, you can still light a fire and warm yourself as the sun sinks gently into the Delaware Bay. The view is spectacular, serene and place perfect for the end of a long shore day.

After a day on the beach, a trip to one of the boardwalks will provide a full evening's worth of entertainment. Everyone knows of Asbury Park and Bruce Springsteen. Walking down the boardwalk it's easy to feel nostalgic, and a little bit sad, about the vanished gentility. The carousel still spins but the sounds of video games and arcades drown out the roar of the waves. This boardwalk has not aged well - as a rule, boardwalks don't.

In Atlantic City, the boardwalk makes the casinos look like monuments to good taste. The oldest of all the boardwalks, Atlantic City was born in 1870 when hotel owners found that no matter how much guests wiped their feet, sand was ruining plush carpets and embroidered upholstery. Now, the boardwalk rings from izoniacs, joggers, roller skates, cyclists and people moving items. It is no longer the place to see, but rather the place to see people. Ocean City wants to be more than just a beach and boardwalk. The boardwalk is the most balanced on the shore, combining bits of honky-tonk, rides and amusements, natural and junk food and a somewhat narrow promenade - if you compare it to Atlantic City. The town is still dry but no one can dispute that it is "America's Greatest Family Resort".

Springsteen made Asbury Park's boardwalk famous in his songs of youth and seashore romance, but modern Springsteen's, who feel that they are born to run, walk or thumb rides down lonely South Jersey roads, aim for Wildwood. They walk, sunburned, barely out of puberty and caring little for parental caution, on a boardwalk that is, oddly, half covered and half timber. Harrah's Hidden Boardwalk is the only boardwalk on an open salt marsh. This is a dubious distinction, until a seagull flutters down and looks you in the eye. With binoculars, you can look on to the Brigantine Wildlife Refuge and imagine how it once was when nobody lived nearby and it was all one vast breath-taking wilderness.

So, if you are going north for the summer and a driving through New Jersey, take an extra day out of your trip and detour for the shore areas. The time will be well spent enjoying one of the many beaches or boardwalks, exploring some of the unspoiled nature or tasting the nightlife of the Atlantic City casinos.

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Speech Night a great success

By Jonathan Ruaseal  
Avlon Staff Reporter

Speech Night was held Wednesday, March 27 and was hosted by Fred Barth. The event was informative as well as enjoyable to listen to the eleven participants giving their speeches.

Starting out was Ray Gallardo with a speech about the effects of noise exposure on people that work in and around aviation. After pointing out side effects of noise exposure, such as tension, anxiety and permanent hearing loss; he then posed the question as to why hearing protection is not mandatory at E-RAU.

If you're lonely, Ed Bartling has the solution to your problem - get married! In his speech about the joys of marriage, Bartling pointed out the advantages of matrimony, such as not being alone on Saturday nights, having someone to go home to and being able to see that person in the morning before they have combed their hair or brushed their teeth. I guess we all have our own ideas of joy.

Mario Pisanos' speech on Co-op benefits contained information useful to those people interested in this program. In his speech, he stated some of the salaries are as high as \$400 per week, which is not bad for a student, and that the company is usually interested in having the student return after he graduates.

A waterbed contains approximately 235 gallons of water and weighs 1200-lb. according to Steven Toote. His waterbed speech emphasized that the problems of leaks are minimal and that the cost of the waterbed is affordable. Medically, the waterbed is good for circulation and reduces tossing and turn-

ing. According to Toote, the average person will toss and turn 60 to 70 times per night on a regular bed, this is reduced to only 10 times per night on a waterbed.

Charles Stern told of his experience in an aircraft accident that almost happened. In his speech, "A Near-Miss", he told of the danger of flying with your head in the cockpit instead of being aware of your surroundings.

The most complex oratory came from Ali Saadeh who played five different characters in his "Dramatic Reading." The presentation was a

humorous one which involved 3 Japanese and two American characters.

Of interest to students looking for a job which is close and compatible with class hours was Kathy Ballinger's speech on student employment. In this speech she informed students that it is possible to get a job here on campus that is convenient and could get them experience in their future job areas.

Elliot Phillips brought up an idea that has probably never occurred to most students. In a speech on intercollegiate athletics, he suggested that E-RAU enter the NCAA.

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# Alpha Eta Rho congratulates new spring initiates

By Alex Sokolaki  
Even though this was the last week before finals, Alpha Eta Rho brothers still have had a busy schedule.

Last Saturday night, April 7, AHP brothers welcomed in all pledges who were initiated as brothers earlier that night. This all took place during the AHP ritual dinner held at the President's Mansion.

Congratulations go out to the members of Pledge Class Upsilon: Chris Chung, Oscar Acovado, Ted Mandeville, Shari Byrd, David Anderson, Mark Berry, Lou Kady, Mary Ann Clark, Kevin Williams, Linda Dobyan, Colin George Anagnostopoulos, Collin

Alekun, Dan Frangopolis, Steve La Course, Mike Scranton and Scott Zeller.

The new brother/all showed their thanks to their big brothers by giving them the paddies they worked on.

Also attending the Dinner were AHP alumni Earl Schuite, Mike Toth, John Buganski and K.C. Silvers. Dr. Van Bibber and his wife were present as well.

Also at the Dinner, the guest speaker had to cancel at the last minute; therefore Doug Smith, an AHP alumni brother, read a letter to all brothers on their futures as E-RAU Graduates and as AHP members.

Later, everyone celebrated at a party at brothers Paul Chis-Fong and Mark Tallafiero's house. It was a fun and memorable evening to say the least.

More congratulations go to the AHP softball team whose talent and teamwork got them to the finals in the league. Although Smiley's loss ended the battle for number one, the team's impressive record was the best in years! All the brothers would like to thank the team for a winning season.

The AHP bowling team ended its season with a not-so-good finish (just under 500). Just as good times were had during the games, just as much

will be experienced at the E-RAU Bowling League Banquet tonight. Better luck next tri.

Still keeping busy until the end, AHP members will be taking a trip to Lakeland and the

Piper-Cheyenne Production Facility on Thursday, April 12. It should be an interesting tour and worthwhile to all brothers who attend.

Finally, all of AHP would like to wish brothers Charlie

Nicholson and Bill Stocssel the best of luck as well as a successful future as they will be graduating this month. And since this is the last article of this Spring, have a safe and happy Summer!

## BOW reviews productive trimester

The Brothers of the Wind are winding down another great trimester. To highlight some of the club's accomplishments, we have participated in this year's Speed Week's activities, had our annual club banquet in which the guest speakers were Maj. General T.C. Hall (Airforce/Retired), and Mr. Lewis Colton, a Daytona Beach businessman.

The BOW's had the honor of hosting a talk session with Lt. Comdr. Ives, the Blue Angels number 5 pilot. In addition, two Riddle graduates who fly the Blue Angels support C-130 visited the University; they were Capt. James Joseph and Capt. Pete Donato, both of the USMC.

out to be a great time.

Future plans for the club include a few trips to Kennedy Space Center, and also to the Space Shuttle launches. Also, the BOW's will definitely present themselves as a big threat to next year's football tournament.

Plans will be open for club use from NASA. There will be a university skating party to start the coast of a new and great trimester. Students interested in becoming future members are always welcome and should be ready for an outstanding trimester.

On behalf of the club officers Lou Barnes (Pres.), Eric McClain (V. Pres.), Richard Brown (Treas.), and Chaz Shepard (Sec.) - we wish you all a productive and great summer!



## Sigma Chi breaks charity record

By Bill Isaakson

At the Sigma Chi house, April is proving to be just as busy as March was. March involved us in many charity events and in April we added to our efforts several fundraisers. Participation in the excellent Skyfest '84 gave all brothers the opportunity to be part of what we hope will become a Daytona Beach attraction as well as helping to raise funds for the chapter; the two arduous days of work and sun provided a much needed change of pace.

This last weekend, Sigma Chi participated in Italian Festival, where much work, food, wine and fun were enjoyed. We hope that this, too, becomes a regular event in Daytona Beach and that we may be able to always be a part of it.

The biggest news, event-wise, at the chapter this term is the

outstanding success in our Spirit Roll for Easter Seals. Last year we raised \$1,100 in this charity event, a record. This year again, under the direction of Public Relations Chairman, brother GEORGE KAUFMAN, we set a record; our goal was to raise \$2,000 but when the final count was made, the sum collected was \$2,300! As with any charity event, the support showed by students, faculty and staff of E-RAU was the factor that made it successful to the point of exceeding our expectations.

This money will be going to work in the Daytona Beach area to assist many who need help. A recent addition to Sigma Chi's community involvement was to voluntarily put the resources of the chapter at the disposal of the Red Cross in the event of a catastrophe in the area. Needless to say, we hope

our services are never needed.

An important milestone in the course of the term was reached last week when the pledges of class Eta Zeta took National Exam, an examination of seven week's knowledge gained through assignments, interviews and lectures. The pledges have completed, as well, their school project, community project, first and second lineups.

We believe that these men will do us proud in becoming members of our fraternity, but a very important step must come first.

In closing we would like to extend a farewell and good luck to graduating seniors, and a "see you next term" to all continuing students. We hope that all can make their life in college the same experience that we at Sigma Chi have made ours.



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## Senior Class honors top faculty

Each senior class has the very difficult task of selecting one professor from each academic discipline to be nominated for the Outstanding Faculty Award. Candidates for this award have demonstrated an outstanding degree of technical competence, a flare for communicating it, a sincere desire to motivate us to learn and the experience to relate theoretical

models to practical applications.

This trimester's winners are: from the Humanities and the Social Science Department, Dr. Wheeler; from the Management Department, Prof. Obi; from the Math and Physical Science Department, Dr. Fleck; from the Engineering Department, Dr. Neate; from the Computer Science Department, Mr.

Thorne; from Aviation Maintenance Technology, Mr. Taylor; from the Avionics, Technology and Electronics Department, Mr. Brannob; from the Flight-Instruction Department, Mr. Hollis; and from the Air Science/Studies Department, Dr. Horwitz.

These faculty truly deserve this award that accompanies it. We, the senior class of Spring 1984, recognize your efforts and congratulate you on your achievement.

## Running Club runs for charity

By Michael Wadner

On Saturday, March 31, the E-RAU Running Club held its end of the year Carbo Loading Party. Business included the election of new officers for next Fall and Spring. The new officers are: Tom Waterman, President; Nick Sirianni, Vice President and Robert Glascock, Secretary/Treasurer.

At the meeting we also presented a check for \$615 to Mary Harowski and Carolyn Foley of Easter Seals for the money raised for the Easter

Seals/Burger King 24 Hour Beach Run in March.

Finally, we discussed briefly some of the club's plans and activities for the summer and next year. For those who are interested in joining the running club and want more information, contact Tom Waterman, Box 4021, Nick Sirianni, Box 6387 or Robert Glascock, Box 4594.

The club would like to congratulate the new officers and wish them the best of luck next year.

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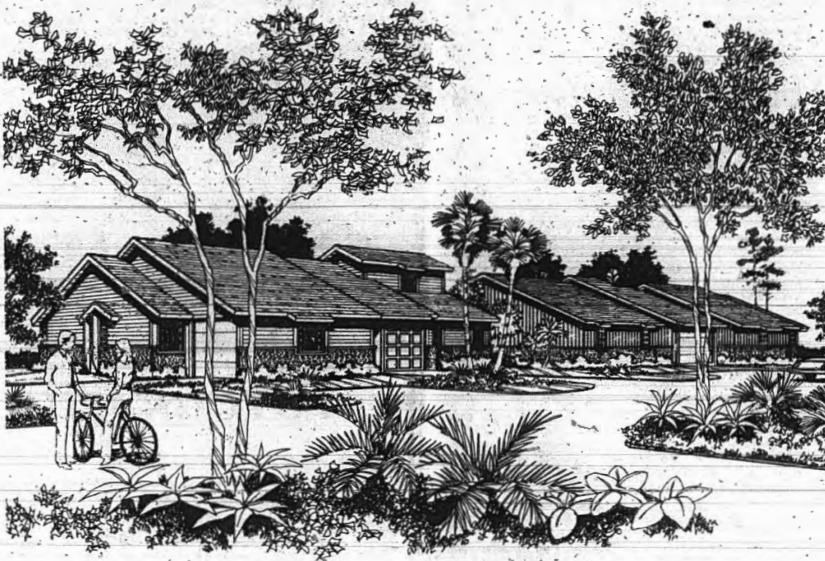
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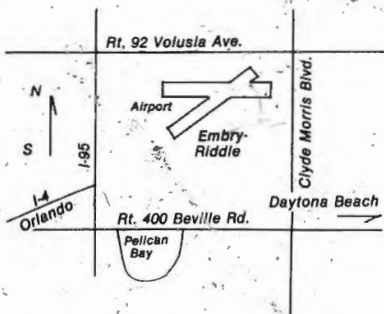
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Sports Editorial

Southern Ice takes softball crown

By Joe Elm  
Sports Editor

Proving that you don't have to have the best regular season record to win a championship, Southern I.C.E. won the Intramural Softball Championship despite going into the final four with the fourth best record.

Southern I.C.E. went into Sunday's game with King's Ransom with a 7-2 record, compared to King's Ransom (9-0), the Busch Boys (9-0), and Alpha Eta Rho (9-1).

This apparent disadvantage didn't bother Southern I.C.E. in the slightest. In their first game with King's Ransom, they jumped out to a 4-0 lead and then held on, despite a last inning home run by Bob King, to take the game, 7-3.

In the other semi-final game, the Busch Boys, trailing by as many as five runs, staged a furious last inning comeback to defeat Alpha Eta Rho, 12-9.

This set up the championship game between Southern I.C.E. and the Busch Boys. The game was tight all the way, but in the end Southern I.C.E. prevailed, 11-9.

Congratulations to Southern I.C.E. captain Rusty MacMillian and team members Kent Burke, Ross Contrell, Rob Fogel, Kelly Eberle, Calvin Hollis, Ron Grant, Kim Ray, Bow Emery, Greg Joiner, Ted Helminick, George Georges, Harry Charalambous, and Art Han.

All in all, it was a great day for softball and good sportsmanship was displayed all around. There were more errors in the three games than would be expected from a championship playoff, but that was probably due to the pressures of the games themselves.

Moving on... I'm starting to wonder if anyone reads this column at all. Judging from the lack of response to my challenges of last week, either no one is reading this and I'm sitting here at this typewriter talking to myself, or nobody out there has any guts. Since I caught all kinds of flack as a result of my predictions, my only other recourse is to believe that nobody out there has the courage to put their money where their mouth is.

I did receive a total of two (2) responses this week. One person agreed with me on the division winners in all four divisions, and the other one picked Baltimore, Montreal, Pittsburgh, and California.

There is still time to get those cards and letters in; I'll extend the deadline to Thursday, April 19, the last day of finals. So if any of you spineless jellyfish have the guts to send in your picks, you have one last chance. If not, I won't feel guilty about not listening to you the next time I write something you don't like.

Short cager sparks team

Who says short people can't succeed in college basketball? If you're good enough, you can do anything—Anthony "Spud" Webb is proof of that.

Webb stands only 5 feet, 7 inches tall. Only 48 NCAA Division I players this season are shorter than 5-10.

Although he may not get many rebounds or win jump shots very often, his quickness has brought him to the top in assists in the Atlantic Coast Conference (5.4 a game). Webb can jump 42 inches vertically and has dunked the ball four times this season. He averages over 9 points a game for North Carolina State.

Players like Webb are the exception instead of the rule, of course. This year, the percentage of Division I players shorter than 5-10 has shrunk to approximately 1.3 (in 1969-70 it was 2.2 percent).

Other players who have broken the mold in the past are 5-9 Calvin Murphy from Niagara, who is fourth among all-time NCAA scorers with 33.1 points a game, and Mike

Afterburners take E-RAU Spring volleyball title

On Monday, April 2, the 3 on 3 Intramural Volleyball Championship was held on the Dorm 2 field. The game pitted the Afterburners against the Gulf Eagles. The Afterburners, led by John Urtis, won the title.

Ragquetball Steve Hampton defeated Eric Heagy in the ragquetball "A" division championship and the "C" championship was won by John Cricci by defeating Paul



Warren from the UCLA, a starter on national championship teams in 1967 and 1968.

Although the tendency among college recruiters is to go after the tallest players, shorter people often get the second of third look. In Webb's case, he proved himself by leading Midland (Texas) Junior College to the junior college national championship. Then he received offers from a handful of universities.

Billiards

Joe Kemp, last trimester's runner-up, took command to win the Spring billiards contest held Tuesday, April 3, in the University Center. Joe, an AMM major from Tennessee, defeated John Mokstard for the crown. Each of the 14 participants had to win two out of three games in order to advance.

**Congratulations to E-RAU Graduates!**

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Historic balloon donated to EAA Aviation Center

EAA AVIATION CENTER, Oshkosh, Wisconsin - March 29, 1984 - The gondola of the first and only manned balloon to cross the Pacific Ocean, the Double Eagle V, arrived, by truck, at the EAA Aviation Center in Oshkosh, Wisconsin on March 28, 1984. The Double Eagle V was donated to the EAA Air Museum by its crew including expedition Capt. Ben L. Abruzzo, Co-Capt. Larry Newman, Pilot Ron Clark, and owner-pilot, Rocky Aoki.

EAA Aviation Foundation President Tom Poberezny said, "We are pleased that the crew of the Double Eagle V selected the EAA Aviation Center as the repository for this extremely significant chapter in aviation history. The Double Eagle V is an important addition to the Foundation's collection. This museum is a tribute to the men and women who have faced the immense challenges of aviation with quiet courage. Our special thanks to EAA member Larry Newman, who was instrumental in our acquisition of the gondola

and balloon." Newman, who is President of American Aircraft, Inc., manufacturer of the Falcon Ultralight, decided that "The EAA Air Museum is the most appropriate home for the Double Eagle V gondola and balloon" after visiting the museum during EAA's 1983 Convention in Oshkosh.

The Double Eagle V lifted off from Nagashima, Japan on November 10, 1981. After remaining aloft for 84 hours and 31 minutes, the gondola and its 13 story-tall polyethylene balloon containing 400,000 cubic feet of helium landed in the brush-covered hills near Colvelo, California. In addition to being the first to cross the Pacific, the balloon's crew set the world's distance record for ballooning of 5,768 miles. They crossed the ocean at an average speed of 68.3 miles per hour and ultimately reached an altitude of 22,000 feet, but not before an ice accumulation atop the balloon threatened the success of the flight.

Earlier, both Newman and Ben Abruzzo along with the late Maxie Anderson made up the first team to cross the Atlantic by balloon. The Atlantic crossing Double Eagle II gondola is currently on display at the National Air and Space Museum in Washington, DC. Newman noted that a photographic display of the Double Eagle V Pacific crossing is also on exhibit in the ballooning gallery there. It is a rare honor for aviation pioneers to be featured in two separate Smithsonian Institution exhibits.

The EAA Aviation Foundation's Museum Director, Ralph Bufano, says that the Double Eagle V, after complete restoration, will take a place of honor in the Air Challengers Gallery. "The Air Challengers Gallery is devoted to aircraft which are unique in either design or accomplishment. For instance, Col. Don Taylor's Thorp T-18, which is the only homebuilt aircraft to have circumnavigated the globe and to have crossed

the North Pole is already on display there," Bufano said.

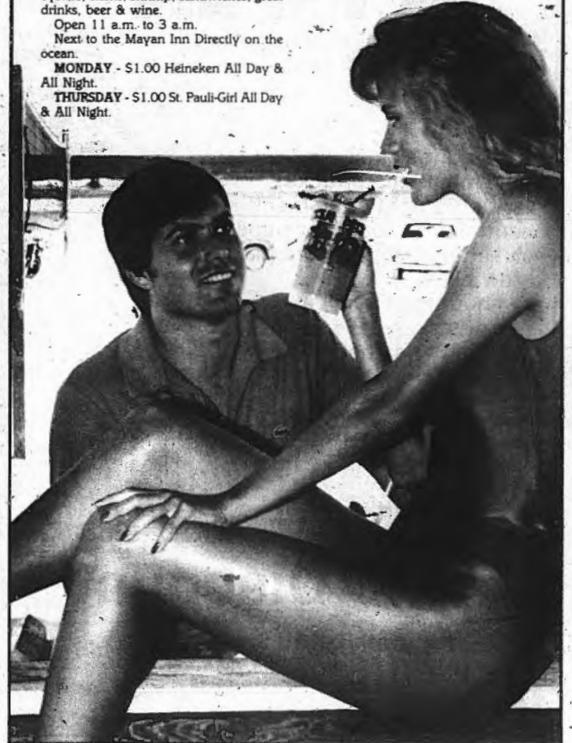
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KAWASAKI 400CC. Must sell, make offer. Call before 9 pm at 257-4323.
YAMAHA 200. Totally street legal, runs great, \$320 or best offer. Contact Steve at 238-9647 or box 6189.

1973 YAMAHA 250 STREET. Excellent condition, new battery, nice rack, very good tires, dependable and economical. 11,000 original miles, asking \$480. Call 736-3410 or 255-4781 after 10:30 pm or talk for Cluce at bookstore.
SUZUKI KATANA 1050 1982. Ready for 0-60 MPH in 5 seconds! Low mileage, great shape. Asking \$2850. OBO. Call 761-6746.

YAMAHA 400 SPECIAL. Like new, vision clear! Must sell. \$800. Call 252-2096 or drop a note to box 3128.
1981 YAMAHA 250 EXCITER. Good condition, low miles, asking \$450. Contact Chris in Rm. 115, Dorn II or leave message in box 3091.
1973 HONDA 750-4. \$750 or best offer. Call 238-5782.

Classified ad policy

- Classified ads are free to the student body.
• Ads will run for two issues.
• Deadline for classified ads is Thursday at 5:00 p.m. in the Avion office
• Only one classified ad per ad card.
• Classifieds can be renewed by filling out another card in the Avion office.
• No classifieds will be accepted over the phone.
• Commercial classified ads are available through the Avion Advertising Dept.

1977 SUZUKI 250 DIETRIE. It's never legal, very clean bike! New engine, have all receipts for many new parts, only \$400. Call Greg at 255-7259 or box 5983.
1976 HONDA 340T. Dependable, run strong, new cables and clutch, "custom" front fender, interesting seat, electric start. Cheap at \$350. Call Bob at 756-3331.
1976 HONDA 350-4. Great shape, runs great, new drives train and exhaust, recent tune-up, black. Must sell, asking \$750 or best offer. Call Phil at 756-4157 or box 5476.
SUZUKI GS-1100S REPLICA (1980). Blue and white, 33 ccms horses, cast pump, cans, cooler, fozas, and more, plus all stock parts and spares, including helmets, cover, locks, etc. Great shape, never rided, runs like a road ape. Graduating this Fri! \$2700 OBO. Call Jerry at 232-2867.
1979 KAWASAKI SR650. 11,000 miles, posted and polished tricked cycle, with Kerker header, New tires (Dunlop) and sprockets plus 2 tone Ironman paint. \$1,300. Call 232-3366 or box 5313.

TWIN BED WITH MATTRESS, solid 4 post pine, \$35. Also, large fig tree, \$10. Tall magnolia tree, \$16. 6' chrome arched iron tree, \$10. Call 788-4723.
MUST SELL WATERBED - superlatex. Blue, mattress, floor and heater. \$40 OBO. Dark - large 60"x90", top cushioned chair. \$30 OBO. Call Jim at 255-5377 or leave note in box 3133.

STAR WARS LIVING ROOM SET - Chewbacca, new furniture! Fuzzy throw w/odd light brown stripes. Good condition. Large couch, love seat, couch-like chair, coffee table and two end tables. Sell whole set, \$1050 or divide into 5. Price negotiable. Will throw in four kitchen chairs (help) for free if buying entire matching set. Call 233-1444.
QUEEN SIZE BED, box springs, and frame only \$30. Price negotiable! 232-3229 or 233-1444.
NEED TO SELL! One double mattress. Great condition. For information see or call 7530. Will accept best offer.

GRADUATION MOVING SALE. Double bed, lamps, desk, table, chairs, etc. all kinds of stuff, cheap! Contact Scott at box 4158 or call 756-2534.
UTILITY TRAILER. 10'x5' w/ 4" high. Fully enclosed, wood and metal construction. Excellent for moving, \$400 or best offer. Call 258-6759 after 3 pm.
FURNITURE - 2 bed tables, matching couch and chair, office desk, double bed, dresser. Package or separate. Preferred to go. Contact Scott at box 3991 or 255-4376.

1983 YAMAHA EXCITE. Only 1400 miles. \$500 or best offer. Call Jeff at 767-3258.
MOPED. 130 MPG, very low mileage. Excellent condition, runs well and is very fast for a moped. Contact John at box 5515 or 767-8148.
SEARS 10 SPEED BICYCLE with processor and light. Must sell by end of trimester. Willing to negotiate price. Contact Tom at box 6486 or Dorn II, room 161.
VISCONTI BICYCLE. 10 speed, fair shape. No reasonable offer refused. Must sell. Contact Matt in box 4332 or 252-9109, room 151.
TEN SPEED BIKE - Men's, fits 5'4" person or taller. French made, light weight, like race. Good condition, \$60 bargain. Must sell, graduating 4/21. Contact Greg at 232-5683 or box 1174.

23' CATALINA. 1979 excellent condition. Sail and all covers. PB/Motor radio and tape, life pres, cockpit chair, and decking, 10 hour electric start, Bimini top, portable bed, water tank, galley, trailer. \$8500. Call 738-3976.
STORY AND CLARK SPINNEY piano. Beautiful polished walnut finish! grand tone, trundle. Dump chair and local delivery included. \$775. Call Eric 1021 (Mon - Sun) or 257-1183 evenings.
MOVING SALE - furniture, recliners, black 60 green velvet chair, full size bed, stereo organizer (good bookshelf) folding chairs and table, lawn furniture, Sanyo 120 watt, 2 channel audio, reverb, trundle, 4 lamps (1 moved) \$250 or best offer. Full size bed and sheets, all must go, make offer. Call Phil at 756-4157 or box 3476.

miscellaneous for sale

DINING TABLE. Solid, heavy wood, seats 3 matching chairs, all contemporary. Fantastic deal for \$60! Tenny back! Drop this opportunity. Call 755-7771.
2 30 GALLON FISH TANKS, stand and equipment. Excellent condition. (Must sell this week). \$90. Box 6788 or 253-2777, 233-9334, Avonbury.
SINGLE BED - \$35, 4 drawer chest \$10. Both are great condition. \$40 takes it all. Contact Williams at box 4065.
SHOEI FULL FACE HELMET. 2 years old, very good condition, \$69 OBO. Contact Bob in box 6332 or 252-9709 in room 153.
GOODYEAR STREET BELTED radials, P225-R, Contact Bert 7817, 860.
PRINCE PRO TENNIS RAQUET. New fast making. Just receiving w/Grammough for maximum spin apks. Great fast and ball control. \$80. Stop by for free run in room 164. Dorn II or contact Geoff at box 9698.
6 PIECE LIVING ROOM SET. Paid \$400 one year ago, selling for \$175. Call 252-2192 and ask for John.
8 FOOT SLATE POOL TABLE. Comes with 5 pool sticks, one bridge, a flowerinng light, 13 balls, one cue ball, a pool stick rack, and a ball rack. \$200 negotiable. Contact Chris in box 6310 or call Kathy at 253-3661 between 9 and 5.

CALCULATOR FOR SALE. Casio APB, 425 cfm. Will fit on almost any electric calculator. Runs great, electric phone. \$20. Contact John at 767-8148, box 5515.
WINDUPPER - Must sell, \$300. Flamingo Praser II 3.5 meters, good condition. Call 672-4125 or box 6175, John.
KITCHEN SUPPLIES - new pots and pans set, \$10. Cooking sprays and supplies etc., \$10. Contact Bob #788 or 252-2277, 253-9334 Avonbury.
ANTIQUE MIRROR. Large, beveled glass, \$80. Call Anthony at 252-2277 or 252-9326.
FULL SIZE MATTRESS, full size box springs, complete for \$45. Myles, \$80. Call 252-2930 or drop a note to box 3128.
TWIN BED, includes bedding, frame and brand new mattress. \$70 firm. If interested, send letter to Scott at box 7701.
HEWLETT-PACKARD OSCILLOSCOPE with complete manual, \$40. Magnetron 25" color console TV, \$300. Call 258-7609.

SAVE. MOVE IT YOURSELF WITH RYDER LOCAL & ONE-WAY. LOW RATES. The right size late-model, top-maintained trucks, with the right equipment: auto shifts, loading ramps. Hand trucks, furniture pads, tow bars. 24-hour road service, anywhere. Moving tips. Insurance available. Ryder Truck Rental-One-Way. Daytona Beach District Office 800 South Nova Rd.....258-0544 15% Discount with E-RAU Student ID and this ad. National information and customer service toll free 800-432-1930. AIRCRAFT RENTAL Regular 10HR Block. C-150 Texas Taildragger \$28 \$25. C-172 VFR \$35 \$31. TAILDRAGGER CHECKOUT AVAILABLE MASSAIR SERVICES, Inc. Located At Massey Ranch Airpark on Airpark Road South of New Smyrna Beach Call or Come By. 427-7708 428-2180. Beach Cut Includes consultation, shampoo & cut. Reg. \$10.00 NOW \$7. Performance Cut Includes consultation, shampoo, cut & blow style. Reg. \$14.00 NOW \$10. Performance Perm Includes consultation, shampoo, cut & finished style. Reg. \$37.00 NOW \$25. VOLUBIA PLAZA 252-1136. YOU COMMAND PERFORMANCE. National Information and Customer Service Toll Free 800-432-1930.

APARTMENT FOR RENT A.B. Fully furnished, king-size waterbed, sofa, dining, bar, color TV (cable), various appliances, very clean, 4 miles from E-RAU. \$250/month plus utilities. Call Tom at 788-4561.

TWO PERSONS LOOKING for two more to share a house in the fall. Contact Mar at box 2566.

FEMALES WANTED to immediately share 3 bedroom apartment. Rent is \$147.50 each plus 1/4 utilities. Furnished. Please reply to box 1058.

wanted

WANTED: Two men's beach cruisers in good condition. Call after 12 noon at 257-5673 or Peter at Lundy.

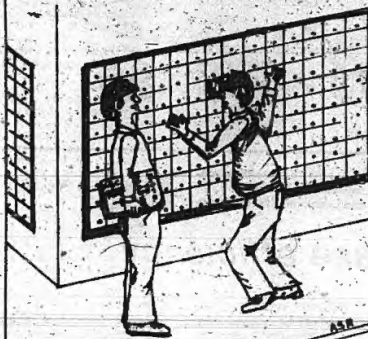
Scott Thank you for your time and friendliness. I hope we had some great times together. Love Holly J.H. I guess good guys don't. Let's stay good together (it pays). H.J.

To the Avion Staff: It's been a real good three years on the staff. We had some great times together. I'm really going to miss you guys. Keep the scamming go a minimum. Ex-Editor

Smiles, I want you to be mine forever. Your Lover

Hardover: Once again the Spring Season brings the Northerners group for days of debauchery: Welcome back to Florida: Mary, Jeff, Bob, Jim, Joe and to Mary's son on his first visit to the party town... an extra welcome. Greg and Holly: glad you finally made it! Hope you all can make it down next year for my trip across the stage. Until... Tony

The faithful student



I got a letter once. It was from the Postal clerk, and it said that I had 4 days to clean the cobwebs out of my mailbox, or write a letter to the editor of the Avion.

IS THERE ANYBODY OUT THERE? Room available through fall tri. Located 2 1/2 miles from E-RAU at off-Berkeley. You pay \$110/mo each 1/3 utilities, was room. Move in anytime after spring tri. For info call Rob at 257-5673 or box 1271.

3 BEDROOM HOUSE - only \$130/month Summer A and B-Daytona Beach Shores, 6 1/2 miles from E-RAU - 1 1/2 hrs. from beach - living room, kitchen, full bath, when Dina's laundry (walking distance) - security and last month's rent required. Call Paul, Charlene, or Jeff at 258-0669.

ROOMMATE FOR SUMMER A.B. Available rent under \$100 plus 1/3 utilities. Contact box 6747 or call 257-8782 and ask for Craig or Robin.

I.D. CARD FOR RENT in new house: 3 bedrooms, 2 1/2 baths, well-to-well equipped, dishwasher, self-cleaning oven, microwave, large yard, etc. Non-smoking \$160/month and 1/3 utilities. Contact Ed at 767-2908 or box 6103.

APARTMENT FOR RENT A.B. Fully furnished, king-size waterbed, sofa, dining, bar, color TV (cable), appliances, 4 miles from E-RAU, very clean, \$250 plus (cell and phone). Call 788-4561 or box 2247.

MALE ROOMMATE WANTED for summer A. 2 bedroom, 1 bath. Sundeck, maid service, apartment is located 4 miles from school on beachside in Daytona Beach Shores. Completely furnished. Rent \$415 for 3 roommates and \$465 for 4.

OCCUPANCY NEEDED: Private room in 3 bedroom, partially furnished house. Located 1 block off beach. Have use of washer. Asking \$100/mo. for Summer A.B. Contact Bill at box 3664 or interested.

ROOMMATE NEEDED starting Summer A. 2 bedroom, 2 bath condo. 1 block from the beach in Daytona Beach Shores. 6 miles from school. Partially furnished with pool, cable, and security. You must be a non-smoker and neat. Rent is \$235 (month) and 1/3 utilities. Call Rob at 257-5777 for more details.

A.P.T. FOR SUMMER A: rent one roommate Summer A. Single room. Apartments. Have your own room, furnished, 2 swimming pools, tennis, 1 mile from campus. \$325 for Summer A to plus electric. Great location. Call Tom plus life Call 257-8079 after 7 pm.

TIRED OF THE DORMS? Move into sunny Bunnia Vista Apts. Tennis courts, 2 swimming pools, laundry rooms, half way between the beach and school. Rent is \$100/mo. plus utilities. 2 roommates wanted by April or A.S.A.P. Call 251-0955.

ROOM AVAILABLE FOR SUMMER A.B. 1 bedroom, 1 bath, living room, kitchen, furnished, \$180/month. Contact: Hein B. Flood, E-RAU box 4458. Phone 253-6635.

miscellaneous

TYPIST NEEDED to type news copy for the Avion during Summer A and B trimester. 15 to 20 hours per week; must be able to type 45 to 60 words per minute. Paid position-involves typing on computerized editor (we will train) and coordination of Avion Historical file. If interested, call Lou Kary, ext.1083 (253-2867 after 5pm) or visit the Avion/Promo office (openers in the U.C.)

FEELING STIFF? Relax with a massage by Olga Apollonakis only. Phone 252-1738.

CUSTOM AIRBRUSHED fine solo T-shirts. Getting ready to make this first solo? You'll want to remember it always with a custom, multi-colored fine solo T-shirt. Impress your friends and neighbors and everybody else. Courteous service, reasonable rates, satisfaction guaranteed. For details, contact Bill at 761-8483 or E-RAU box 7200.

TYPIING. Experienced typist available. Fast and accurate. \$1.25 per double spaced page. Nancy, 259-7362.

CALL ME, JAN, for all your typing needs: resumes, cover letters, term papers, etc. Former English-Spanish Major. Many years experience administrative-executive work. Call Moo-Pris (no weekends unless an emergency) Sun to 5pm, 767-2281. Cover and paper included at no charge.

personals

Hey farm boy, CONGRATULATIONS!! for successfully completing 4 years of Riddle run-a-road!! Sorry we couldn't be around for your big day (we had better things to do). But when they call your name as graduate, don't forget to say "Here I am!!" We'll sure miss not having the 4th mucker around!! Good luck at Riverside - don't worry, we WON'T let you forget us. Dogan, Warren and Steve

Edo: The coffee and croissant ladies are going over to the early morning. Hello to late nights and David Leterman. TP

Dear Oophee Gang: You're all the greatest! We miss you so much. Be sure to remember your open invitation in Troy! Thanks for the very best Spring Break ever!! All our love, Tracy, Monica and Kelly PS. Hey John, "We want to be Air Force wives!"

To F.A.G. We never smile before 6, our foods gone over 12, and beer visible thin air over night, good luck finding two suckers for the summer. You've come back every way baby! The Outlanders

notices Food service remodeling

Beginning April 16, 1984, the University Center Dining Room, Pub Area, and Food Service lines will undergo extensive remodeling. The Food Service lines will be closed during this time; however, we will be serving breakfast in the University Center Dining Room Monday, April 16 - Wednesday, April 18, 6:30 am - 10:00 am.

For your planning purposes, be advised that the Pub Area is being converted to a bar/club and a beer concession. Therefore, it will no longer be available for displays, sales, etc. We hope to have all areas finished by May 7, 1984. We apologize for any inconvenience the remodeling may cause, but when completed, we will have a service area everyone will enjoy. If we can be of any help, please let us know. Russell Mellette Director of Food Services

Graduating seniors

GRADUATING SENIORS!!! Just a reminder... If a prospective employer requests an official transcript for a job interview, we must have a written request from you before that information can be released. Transcript request forms are available at the Registration and Records Office.

Summer graduates

STUDENTS ANTICIPATING SUMMER '84 GRADUATION: Student graduation applications are now being accepted in the Registration and Records Office for those students anticipating Summer (June or August) degree completion. Each student will be given a preliminary graduation evaluation in order to help prepare for a smooth completion. Any changes to one's advanced registration can be done during the add/drop period.

I.D. cards

The Dean of Students Office is offering a two day amnesty period to enable any students who presently have E-RAU I.D. cards with incorrect dates of birth on them to turn in the incorrect cards and have replacement cards issued. The delinquent students may come to the Dean of Students Office to purchase a corrected I.D. card will be Friday, April 13, 1984 from 8:30 am to 4:30 pm and Monday, April 16, 1984 from 8:30 am to 4:30 pm. There will be a \$5.00 charge for any new I.D. card which is issued to replace an incorrect card. During this amnesty period, students turning in cards with incorrect or altered dates of birth will not be subject to disciplinary action.

FAA pilot exams

Please be advised that the University FAA Pilot Written Test Examiner will implement the New Airman Written Test System on the first of May 1984.

PROFESSIONAL TYPING

Reports, term papers, resumes and mailing lists typed within 48-hours using word processing. Spelling and punctuation corrected. Spaces for illustrations built into the final document. Inquire at CAMPUS BOOK RACK in Daytona Mall. Call 252-8119.

10% DISCOUNT On goods and services Just present this coupon along with a Riddle I.D.

Experience the Senior Class Party Where: Twilight Zone! When: Thursday, April 19 Time: 6:00 p.m. Tickets available at Cap and Gown pickup. Graduates, let's have a good time

ROA gives out awards

As the trimester rapidly approaches it's sunset, the Reserve Officer Association is about to go into recess until the fall. We've had busy year and plan to have an even busier fall. Several days ago, ROA had it's awards dinner at H.P. Cassidy's in Ormond Beach, where cadets David Brescia and Robert Lucky were named freshman (100) and Sophomore (200) of the year. The following day, Air Force ROTC cadets were treated to survival exercises provided by Army ROTC cadets. Included were lessons on booby trapped paths; field-cooking and first aid. To conclude the exercise, Air Force and Army ROTC cadets were challenged with the goal of making their way from the sight of their pinned aircraft to a specific pick-up point while avoiding traps, pits, mortar fire (simulated, of course), and incessant enemy patrols. The body count was 4 and there was one willing POW. Congratulations go to V-President Sandy Krigel who was one of two survivors who ended up neck deep in a swamp but managed to claw his way to freedom.

DOTS AIRPORT SHUTTLES \$1400 One Way On Schedule. Serving: DAYTONA AIRPORT TO ORLANDO AIRPORT FOUR ROUND TRIPS DAILY. Call 904 / 257-5411

10% off ALREADY DISCOUNTED PRICES

10% OFF STOREWIDE RELOCATION SALE 3 days only. RIVERIA PLAZA 1700 RIDGEWOOD AVE., HOLLY HILL

UP TO 22 MOS. TO PAY WITH NO DOWN PAYMENT

STEVEN'S TIRE WAREHOUSE 140 MAIN ST. (Beachside) 255-2581

LENZ FOREIGN SPECIALISTS AUTO ELECTRIC Electrical Trouble Shooters AUTO - MARINE - INDUSTRIAL STARTERS & ALTERNATORS FOR ALL! SERVICE WHILE YOU WAIT HEAVY DUTY RECOMBINATION BATTERIES CALL FOR OUR LOW LOW PRICES. 255-3111

# SR-71 turns 22 years old

By Brian Nicklas  
One aircraft which holds the interest of many at Embury-Riddle, is celebrating on April 26, the 22nd Anniversary of its first flight. That aircraft, as incredible as it may seem, is the Lockheed SR-71 "Blackbird". Designed in a 3 year period between 1958 and Dec. 1961, the Blackbirds brought aerodynamics, systems and powerplant engineering to a high art.

Initially seen as a replacement, rather than a stablemate, of the Lockheed U-2 "Dragon Lady" (or "Angel"), the first of the Blackbird family was funded by the CIA under USAF guidance. The first of the Blackbirds, known as the A-12, was developed as a technology demonstrator which was used to evaluate and correct the vast problems inherent in the radical new aircraft. These problems were multiplied because virtually every system was a ground-breaker in aero-thought. During and after its trial and test period, the A-12 was used operationally, as a stop-gap until the SR-71 became operational.

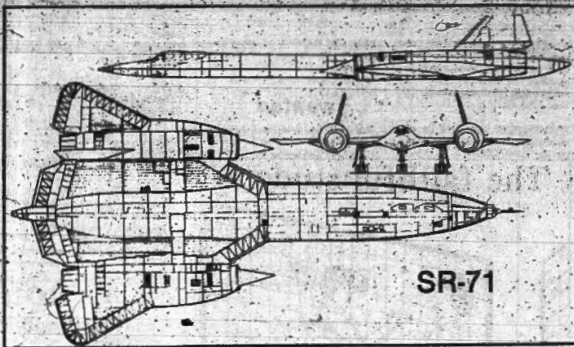
A joint NASA/USAF team researching supersonic flight, an area formerly investigated by the X-15 and X-47 aircraft.

During the test period of the YF-12, the Blackbird appeared in its most familiar form, the SR-71. This is also the most numerous of the Blackbirds. Approximately 30 airframes were constructed. The SR-71 has appeared in 3 versions, the SR-71A, B and C. The B and C SR-71s were trainers, the rear cockpit was raised to accommodate an instructor pilot. The C model is one of the most interesting of the Blackbirds, its nickname, "the Bastard", shows why. This one-of-a-kind was built from the rear fuselage of a YF-12 and the front of a

engineering mockup, and is said to be a masterpiece nightmare.

The SR-71's crew consists of the pilot and the reconnaissance systems officer (RSO). While the pilot has the only full flight controls for the aircraft, the RSO is able to control the Blackbird's horizontal flight path with the Inertial Navigation System (INS). The RSO is also, in addition to working the INS, also operates the SR-71's sensors (both optical and electronic) and the electronic warfare systems (both active and passive).

All in all, an amazing aircraft, particularly when one considers that it is literally a slide-ruled design. When Lockheed's Clarence "Kelly"



Johnson was asked to comment on the SR-71's future role he stated, "It will continue to be

the most advanced reconnaissance airplane in the air.... I don't think the U.S. is going to

build an airplane that will surpass it for a very long time, if ever."

Production of 3 YF-12 intercepter prototypes interspersed the production of the 75 A-12's, it is these 3 aircraft, together with the SR-71 prototype (YF12C), that bore the brunt of the Blackbirds record-breaking and flight testing. These records include a sustained altitude of 80,218 feet and a record circuit speed of 2,170 MPH.

Following cancellation of the Advanced Manned Interceptor (AMI) Program in late 1967, the YF-12's were put to use, by



By Tony Pinto  
Anyone who uses the cafeteria on campus knows what it is like to stand in line especially for some french

ries. The Embury-Riddle Food Service personnel recognized this and are now ready to implement construction that will greatly change the appearance

and operating characteristics of the present cafeteria.

E-RAU food service is provided by Epicure Food Services, Inc., an organization headquartered in Charlotte, North Carolina. It was last fall that Betsy Mellette, Food Service Director for E-RAU, proposed to the university that changes be made to accommodate an increased volume of sales and add to the efficiency of food preparation and serving line flow.

According to Mellette, "We wanted to increase the efficiency of the overall operation to handle a tremendous increase in volume. We also want to enhance the aesthetic quality of the dining area so people can feel like they are eating in a dining room rather than an open facility."

Mellette spoke of the cooperation he received from Student Activities in giving space for the planned construction. In reprise, an area located on the other side of the University Center will be petitioned off for student use.

Scheduled for completion by early May, the proposed improvements will include resideded serving lines, a new snack bar in the existing pub area and a food service program patterned after the McDonald's food chain.

As time goes on, Mellette looks at a wider food selection that will cater to many individual interests. Two additional fryers will be included in the snack bar as well as carpeting throughout the existing area, resurfaced tables and new,

durable seating. Mellette stresses that these improvements are necessary to make the eating environment better for the students. Meal plans will be accepted at either of the serving lines with fresh fruit, milk and condiments located at the fast food line.

For those who are concerned about the pub itself, it will be located adjacent to the serving area but will look completely different than it does now. Plants will be added as well as several other decorative items.

As part of an ongoing effort to serve the student body, Epicure Food Service and the E-RAU Student Activities Office planned improvements to the cafeteria should prove beneficial to meeting the needs of Embury-Riddle students.

**Carmichael's**  
OYSTER BAR

**THURSDAY SPECIAL**

Famous Baked Onion Soup  
ALONG WITH A BASKET OF  
Fresh Fried Flounder  
WITH STEAK FRIES &  
COLE SLAW

**\$4.99**

**Carmichael's**  
OYSTER BAR

**FRIDAY NIGHT** 5-8 PM

MEET IN THE MESSHED WITH  
CARMICHAELS

**SPECIALTY SPIRITS FEAST**

ALL COCKTAILS \$2.00

FRIED SHRIMP OR CLAM BASKET \$2.50

FLUNDER SERVED WITH FRIES (COLE SLAW) \$2.75

ALL DRAFTS 75¢  
MON. - THURS. 9¢  
WED. - FRI. 9¢

**Carmichael's**  
OYSTER BAR

**SATURDAY SPECIAL**

Oysters ALL DAY 15¢ each

Bigger BURGERS SERVED WITH Steak Fries or Onion Rings \$2.95

**Carmichael's**  
OYSTER BAR

**SUNDAY SPECIAL**

ALL YOU CAN EAT BASKET

Fried Shrimp, GULF Oysters, Cole Slaw

All you can eat \$5.95

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Locations:  
128 S. Ocean Ave.  
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258-5040

**2 COCKTAILS** HAPPY HOUR  
DINE IN OR TAKE OUT FOR THE 2ND EVENT!  
5-7 PM  
ALL DRAFTS \$2.00  
BEER 75¢  
MON. - THURS. 5-7 PM  
FRI. - SUN. 5-7 PM

**OYSTER** HAPPY HOUR  
3-5 PM DAILY  
OYSTERS 15¢ each