

3-1-1989

Avion 1989-03-01

Embry-Riddle Aeronautical University

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Daytona prepares for collegiate invasion

CWUON



An Award Winning College Newspaper

Volume 61, Issue 7

Embry-Riddle Aeronautical University, Daytona Beach, Florida

March 1, 1989

Aeronautica



photo by Joe Szarnach

Renowned aviation author Bill Kershner spoke to the inaugural meeting of the ERAU Aerobatic club at Eagle Flight Center. **Page 4**

Campus

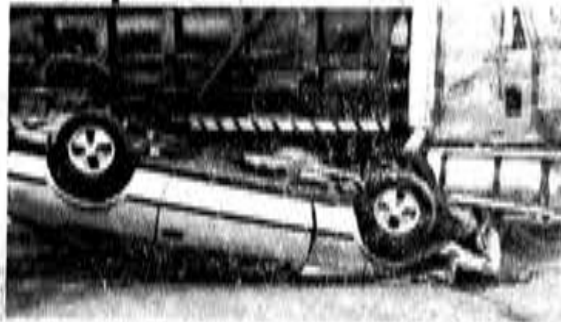


photo by Eric F. Engle

Students in AC 1 witnessed an accident this week when a dumptruck came unhitched and demolished two cars in the parking lot. **Page 6**

Clubs



photo by Joe Szarnach

Christian fellowship listened to the inspirational words of a guest speaker last Saturday. **Page 10**

Diversions



© 1989 The Walt Disney Co.

Disney World offers spring break seekers an enjoyable alternative to the beer bashing activities here in **Page 14**

Space Technology



photo by Richard Hodge

The space shuttle Discovery is being prepared for its next launch, which is set for mid March. **Page 11**

Sports



photo by Joe Szarnach

ERAU Baseball will pair off against several of their rivals this week with two games at home and one in Deland, against Juanita College. **Page 13**

Morrison's offered food service contract

by Martin Kammernan
Campus News Editor

Epicure will soon be a distant memory as Morrison's sets to take over at the end of the Spring semester.

Many students of Embry Riddle who feel as though their voice isn't heard may feel grateful towards SGA President Earl Stephens, Jr.

Stephens is a prime example that the students do have a say in what goes on within the University Administration.

In the recent selection of a new food service vendor Stephens was partially responsible in the decision to bring Morrison's Custom Management Corporation to Embry Riddle. Basically, what this means is that a student was part of the deciding factor to oust the Epicure company and bring about a change.

The selection committee was made up of the students and administration consisting of Charles Fountain, Dr. James Harrison, and Margie Churchman speaking for the University business department. Earl Stephens and Dennis Wilkins as student members as well as representatives of the Comptrollers department, Presidents office, and Dean of Students office.

"My purpose on the committee was to help bring about an unprecedented change to the food service program as well as some damn good food to the students of this campus," said Stephens.

The process of soliciting proposals for a food service vendor started in the Fall semester when the University Administration, noting Epicure's contract coming up for renewal, gave the impetus in the formation of a committee. The Chancellor called for the committee to develop a set of operational standards to be maintained by a food service vendor. Some of these standards include attainment of the highest quality dietary operation at a reasonable cost to students, creation and innovation in design, development of cost saving incentives, and implementation of an attractive food service facility.

An RFP (Request for Proposal), or list of the guidelines, were sent out to prospective bidders. Eighteen companies responded to the Proposal guidelines. On Dec. 12, 16 of those companies came to campus to discuss over the table proposal specifics as well as tour the campus and existing food service facilities. Ten of the 16 companies were found to qualify as



photo by Doug Miller

Anticipation...

Students will be experiencing a change. The new food service contract has been offered to Morrison's. They have pledged to make Embry-Riddle their Florida showplace.

per the committee guidelines. In continued qualifying, the number of companies dropped to seven and then to four.

The final four consisted of Morrison's Custom Management, Marriott Corporation, Service America Corporation, and Epicure Management Services Corporation. These organizations were invited to present an oral presentation with a more detailed explanation of their proposed plans.

On the Feb. 16 the committee once again met to compare notes and have an open discussion in hopes of coming to a final decision.

A unanimously decision was reached in favor of Morrison's due to the fact that they offered the best overall presentation,

services, commitment to project, experience in the field, management support team, and guaranteed quality of food.

"I am glad to see that there will be a definite change in our food service by Fall '89. The selection of Morrison's warrants this, and we as students have a definite say in how this, our food service is to be implemented."

Epicure's contract officially expires at the end of April. Students on campus during Summer A will see changes, without a total interruption of service. Morrison's will work with the existing facilities, while at the same time renovating them.

The current staff of Epicure will be interviewed by Morrison's. A good many will remain with the University.



photo by Doug Miller

One proposed changes will bring a declining balance system

Flyer sculptor visits campus to analyze future construction site

by Phyllis A. Salmons
Copy Editor

Larry Godwin, sculptor of the proposed Wright Flyer, visited the Embry-Riddle campus last Thursday. The Wright Flyer, a full sized exhibit to be located in front of the Jack R. Hunt Memorial Library, will be funded fully by contributions.

Godwin has completed numerous metal sculptures internationally including a seven-foot diameter sphere which is in the Hard Rock Cafe in Chicago. In the Wright Flyer project, he will attempt to duplicate one of aviation's famous "firsts" -- the 1903 powered flight of the Wright Brothers at Kitty Hawk, N.C., as immortalized in the famous photograph by John T. Daniels.

The target date for completion and dedication of the Wright Flyer is mid-November 1989 to coincide with Embry-Riddle's Aviation Homecoming and Florida Aviation Week.

Godwin stated that the 40-foot wingspan, 5000 pound Wright Flyer will be fairly accurate from a historical viewpoint. He does however intend to make an artistic statement with the sculpture. "We want to incorporate both art and reproduction in the project."

The Wright Flyer, to be fabricated of stainless steel, will incorporate numerous mechanical movements including propeller and canard motion to give a working model quality.

Godwin described the meticulous process that will be used for the textured wing surfaces, which will involve an overlapping interweave of stainless steel strips. The intent is to give a translucent quality to the metal construction to better simulate the appearance of the original craft.

Godwin is in the process of researching the support structure including soil testing at the site and analyzing the type and size of

foundation necessary. As for the support structure, Godwin explained, "We plan to use the cantilever concept which will give the illusion of launching the plane." The Flyer will thus be elevated and pushed out from the bank and over the water retention area with the principal structure being about 15 feet above the ground. This design will, according to Godwin, "give more of an airborne feeling."

Special care will be taken to make the structure weather resistant and secure under any normal conditions. Godwin explained the process to be used which will allow coloring with acids instead of paint to provide a permanent stain. A

combination of wax and acrylic resin lacquer will be applied to seal the metal and help preserve the finish.

On the structure, there will be a bronze model of Orville Wright at the controls, depicting the instant the aircraft lifted off its catapult on December 17 1903, at 10:35 a.m. Another bronze statue of Wilbur will be "running" along side as shown in the famous photograph.

Godwin will work on the project throughout the summer, expecting the actual work to take about four months. Much of the work will be done in Alabama, where the sculptor lives.

see WRIGHT, page 8

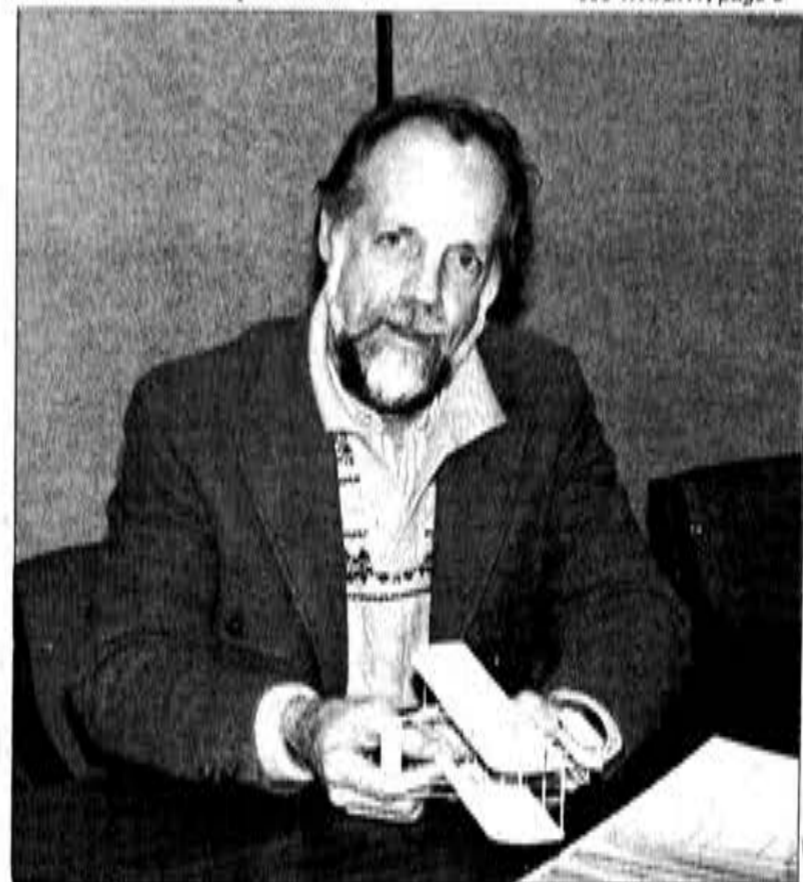


photo by Joe Szarnach

Modeling...

Sculptor, Larry Godwin shows off his rendition of the famous Wright 'Flyer'. Godwin has been commissioned to put together the university's work, to be placed in front of the library.

Student involved in nearby crash

by Sherri Berry
Staff Writer

A 16 year-old student pilot and her 21 year old flight instructor received serious injuries when the single engine plane they were flying crashed just yards away from S.R. 44 after engine failure shortly after 10 p.m. Friday.

Rescue personnel stood by with water in case of fire while the Volusia County couple was pulled from the wreckage and taken away in ambulances.

Sherrie Augustus, 16, of Port Orange, was flying the plane on loan from Eagle Flight Center in Daytona Beach, when the engine failed, according to Sgt. Eddie Beville of the Citrus County Sheriff's Department. Michael Friese, 21, a student at Embry-Riddle, took the controls and attempted an emergency landing, possibly on the highway but was unsuccessful.

Friese is listed in guarded condition, and Ms. Augustus, who suffered multiple fractures and bruised lungs, is listed as critical but stable at Citrus Memorial Hospital.

"They picked the best place to bring it down...we feel like it's a miracle..."

Richard Augustus

The plane, which had been flying about 3,000 feet hit a power line and clipped the top of a tree, tearing a wing off. It went down in lot beside S.R. 44, about 100 yards east of S. Hickney Terrace, Beville said. He added that it seemed as though all of the emergency procedures were followed by the couple.

The plane had landed in Crystal River, according to National Transportation Safety Board air safety investigator Jeff Kennedy, and was making its way to the Daytona Beach area.

Monty Montgomery, who is a flight instructor along with Friese at Eagle Flight Center in Daytona Beach, said that Ms. Augustus had the necessary requirements to receive a pilot's license, but cannot obtain the license before turning 17.

She and Friese were flying a friend to the Crystal River Airport and had just dropped off the friend before the crash.

Richard Augustus, Ms. Augustus' father, said he went to the site where the plane went down and examined the plane.

He said that apparently his daughter had been piloting the plane and after the engine failed, she turned over controls and all the proper emergency were followed by her and Friese.

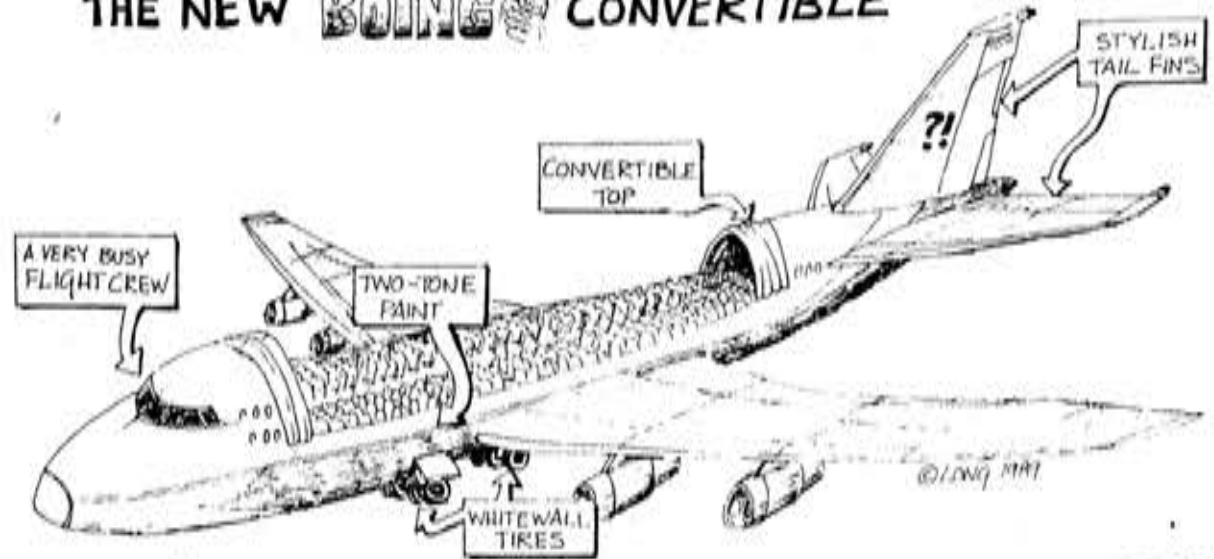
see CRASH, page 17

Editorial

Monopoly- "Exclusive ownership through legal privilege, command of ownership, or concerted action."
 The unbiased definition of monopoly provided by Webster's Ninth New Collegiate Dictionary fails to address the apparently contradictory place of monopolies in our free enterprise system.
 As demonstrated throughout the history of the United States, monopolies designed to nurture a needed service often result in inflated prices, restrictive delivery schedules, and deficient product quality. Ultimately, the consumer bears the brunt of such a system, making it vital that the organization doing out monopolies keep close tabs on the economics of the situation.
 Monopolies are no stranger to Embry-Riddle. We were made acutely aware of that fact last fall when a major textbook shortage wreaked havoc among students. Classes across the curriculum were affected as students awaited the arrival of necessary texts. There was no other alternative since the University does not release the master textbook list to possible competitors in the area. Many classes were without essential texts for the first month or more of classes.
 One of the more recent monopolies on campus involves the university's association with the sale of IBM computers to faculty and students. The bulletin boards in C Building on campus are a virtual showroom of ads concerning IBM computer discounts and financial rebates.
 The University has allowed student employees (paid by ERAU) to sell IBM's to fellow students. Students get a 40 percent discount because of a "deal" we have made with IBM. But is the "deal" really worth it?
 Several students have ordered and paid for computers and printers about six weeks ago but have not received them. One student has reportedly been waiting since last semester for a printer. Local vendors claim they can deliver the same hardware in about three days. The common reaction to requests for information about the shipping date from ERAU representatives is "just a few more days and it will be here." As one student put it, "they were quick to take my money, now I want my computer."
 The main question should be how can a "non-profit" university such as Embry-Riddle be so closely affiliated with a profit-making organization such as IBM. Many students and faculty prefer other computer systems for their specific needs. Why not give students the opportunity to buy the computers they need, instead of the product of a monopolistic trust?
 When a monopoly fails to provide clear advantages to justify its protected business environment, the monopoly should be eliminated. There seems to be a lot of questioning in the business world about the need for monopolies. Deregulation of the airlines and telephone industries are prime examples.
 Pursuing alternative sources for student services requires hard work and imagination - a commitment to what is best for the student. All around us are possibilities for more creative approaches to student services.
 The university and its students should re-evaluate the present system of contracted monopolies. Monopolistic services are meeting student needs (though slowly in some cases), but alternative methods could offer Embry-Riddle more diversified and efficient services. With this, the financial burdens and promptness of delivery would be lessened and our time and money could be spent in more productive areas.

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Letters to the Editor

Course to consider

To the Editor:
 I am writing this letter article to make a suggestion to all Embry-Riddle flight students. My suggestion is that you seriously consider a course called FA-416. I know...most of you probably have never heard of FA-416. The course does not have the popularity of an FA-400 (Certified Flight Instructor course) but it should be equal if not greater consideration. FA-416 is a course which teaches crew coordination and cockpit resource management. The course is taught mostly in the Frasca-242 simulator with two flights in the actual airplane. Even the phase check is in the frasca. The way the course is taught is you have a flight partner like you did in your previous flight courses, except you both fly at the same time. One of you will fly as captain and the other as copilot. Then you will switch. You will be taught to act as both captain and

copilot under normal and emergency situations. And with most of the course being in the frasca, you'll be dealing with emergencies you've probably never seen before in any of your previous flight courses. Some of my instructors favorite emergency are flight in icing conditions and partial engine powers. You'll also probably shoot an ILS approach to runway 31 in Hong Kong. My instructor has that approach programmed into the frasca along with many others that are out of Daytona Beach area. You'll definitely have variety. Finally, the ultimate in the course (aside from the phase check) is the cross country which is done in the actual airplane. Its purpose is to teach you high altitude flying into preferably a higher density airport. My flight partner and I chose to go up to Washington, D.C., during inauguration weekend. We went at 21,000 feet. The flight was an excellent learning experience for

both of us.
 I owe a lot to my instructor for what he has taught me in FA-416. You'll be amazed, after all the new emergencies that will be thrown at you, to find out what you as a pilot are certified to handle and what you can really handle. I believe that anyone here whose ultimate goal is to be a professional pilot, corporate or airline, owes it to themselves to give FA-416 some serious consideration. After all crew coordination and cockpit resource management are what professional flying is all about.
 Anyone who has questions concerning the courses should contact the Mr. Beneish in the flight department.

Arthur Thatcher
 Box 8233

Lab goals

To the Editor:
 One of the primary goals that I set for the Physics labs is to provide

situations for students to develop the persistence and resourcefulness necessary to solve challenging problems. It was mentioned in the letter to the Editor that a hydrometer was not adequately defined. This was intentional. It is described in all dictionaries (many have figures showing its use) and some encyclopedias. I believe that this would constitute a small research project demonstrating the intersection of physics and more common subject matter. Also I had hoped that some students would discover on their own that the hydrometer is used to assess the condition of battery fluids and is a standard tool of aircraft maintenance.

Let me now address the issue of assigning problems requiring unit conversions. Our physics text is almost exclusively devoted to the metric system. However, as you are well aware, in the U.S. aircraft specs and other data are recorded in

see LETTERS, page 12

Student Forum

The Avion Asks: What Spring Break activities do you plan on participating in?



Joe Hesano

Hitting all the clubs, going out and partying and kicking back and relaxing. I'm going to unwind.



Paul Sandburg

I'll probably be at the beach on the weekends. I'm going to relax and have some fun.



Mamizha Barikzoy

Going dancing at the MTV band shelter contest, and go to the beach.



Matt Bender

Volleyball competition. I'll try to participate in as many sports related activities as possible. I'm just going to have a good time.



Randy Williams

Going to the beach and watching all the good looking babes in swimsuits.

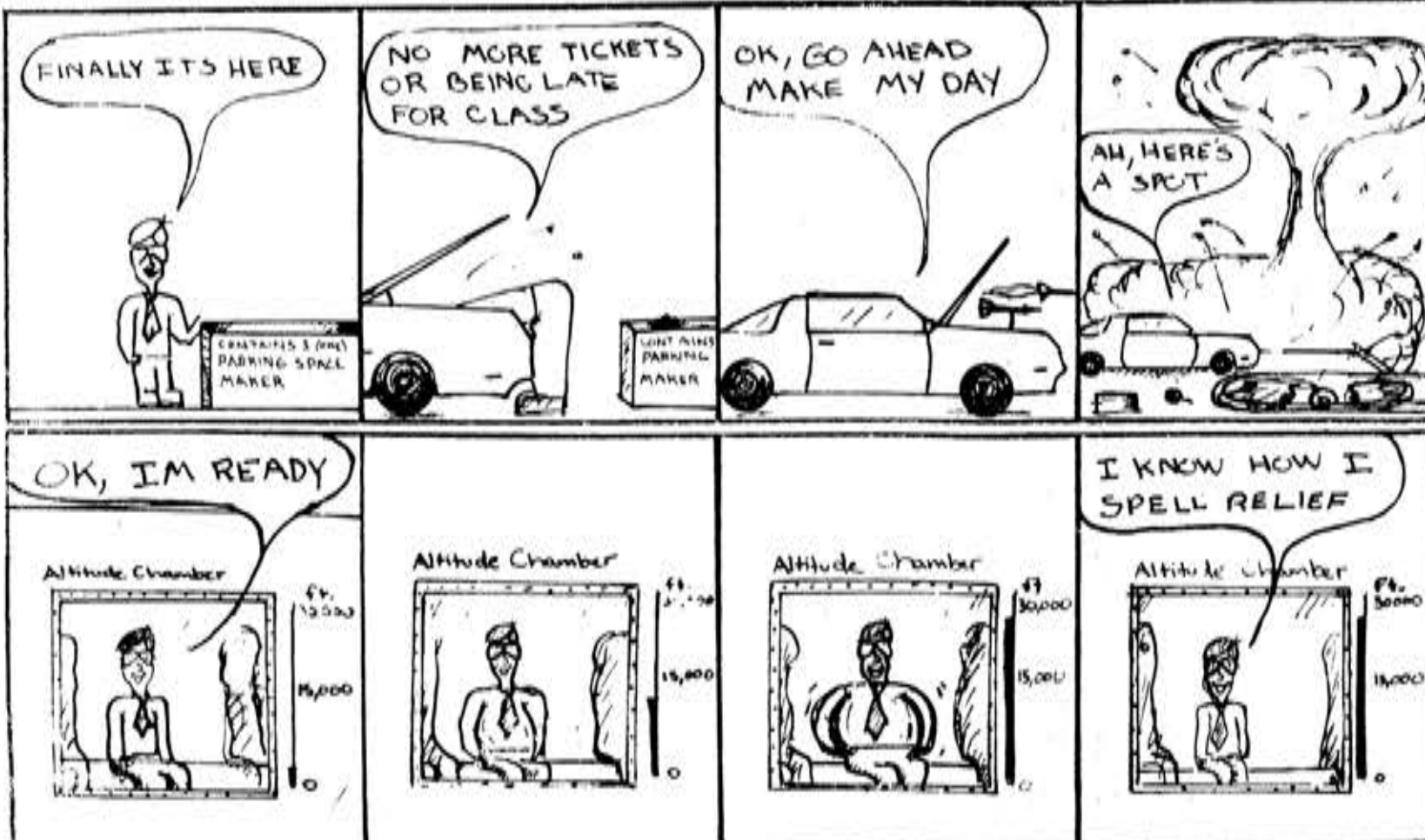


Bridgett Smith

Studying! That's about it.

photos by Doug Miller

Joe Pilot



Joe Szarmach

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

(CPS) The number of high school seniors applying to top colleges around the nation is down for the first time in years, most likely because of dwindling number of high school graduates and increasing college costs, admissions officers say.

"Since this is happening to everyone, the best guess is that it's demographics," said Michael Behnke, admissions director of Massachusetts Institute of Technology, where applications are down 10 percent from a year ago.

But some suspect that students and their families may be reacting to tuition increases that have consistently exceeded the nation's inflation rate throughout the 1980's.

"I think there's a great possibility that tuitions are a part of it," said Linda Davis Taylor, admissions director of Amherst College, where applications are off by 4 percent from last year.

"I question whether price is a real

issue," argued David Merkwowitz of the American Council on Education. "It hasn't affected them before."

The number of high school seniors has dropped steadily from 3 million in 1980 to 2.76 million in 1988, and is expected to drop in college enrollment, however. To the surprise of many, college enrollments grew from 12.1 million in 1980 to 12.5 million this year.

Some college officials believe the drop in applications from next fall's freshman class is the first sign the long expected decline in enrollment is about to begin.

Harvard University spokesman Peter Costa estimates a 5 to 10 percent drop in applications, the first such decline in at least 20 years. Brown University and other Ivy league schools report similar declines.

Stanford University's fall applications have decreased 6 percent and the number of applications sent

to the University of California-Berkeley also has fallen.

"I consider this a yellow light. We all kind of anticipated it," said Bradley Quin, admissions director at Lafayette College in Pennsylvania, where applications are down five percent "I don't mean to imply that we're not concerned. This is a competitive business, and it's going to make it that much harder to increase the quality of our classes."

I wouldn't predict any plummeting of college enrollments," countered Merkwowitz. "And I certainly wouldn't believe those schools (Ivys and others academically rigorous and expensive college) will suffer one bit."

"We're talking about a small margin of change. Elite institutions will not be affected by this because they receive far more applications than the number of students they admit," he added.

If enrollments do fall in the future, Merkwowitz said less selective

schools will feel the brunt of it. "The elite schools will have no problem with enrollment."

Some officials say students also may be cutting down on the number of schools they apply to following a decade in which multiple applications increased sharply. An annual survey by the American Council on Education and the University of California-Los Angeles found that a record 37 percent applied to at least three colleges in 1988, compared to 26 percent in 1980.

Students are apparently less eager to submit applications when application fees have hit \$50 and more.

"When you start talking about \$50 fees, you get more selective," said Sanford Rivers, associate director of admissions of Carnegie Mellon University.

"Students and their counselors are recognizing that multiple applications don't always produce results," Merkwowitz said.

Career Navigator

Thinking of jobs overseas?

Is the thought of working and living in far-away, exotic places luring you to consider looking for jobs overseas? Think hard about this decision, because your job-search will be difficult. Not impossible, but definitely difficult. Overseas employers are typically looking for highly skilled, experienced (5 years and up) employees. Less skilled "generalists" must have an area of specialization or professional qualifications of some sort. Speaking the language of the country may or may not be a necessity.

Working for a non U.S. firm overseas will be extremely difficult unless you're already a resident of the country involved. For a U.S. citizen to obtain work papers in many countries is often more difficult than it is for foreigners to obtain papers to work in the U.S.

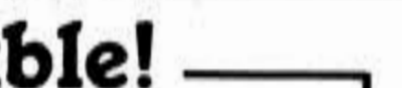
The easiest path is to work for the U.S. government, which is the largest employer of Americans working overseas. To explore overseas opportunities, request information from the civilian personnel offices of those agencies in which you might be interested.

A second path for possible overseas jobs is to work for a U.S. firm doing business overseas. Companies such as General Electric and General Dynamics have personnel in a variety of overseas locations. Check your library for background books, directories, and periodicals which provide names and addresses of overseas employers and multinational organizations.

Finally, you may want to use the services of an employment agency. Beware, however, of the unscrupulous agencies which promise much, cost you more and deliver little. Don't pay up-front finder's fees without guarantees of a job.

Qualifications required for overseas jobs are unique to each job. There is no way to build a general list of what employers need. So you need to identify the type of jobs you want and the companies which have those jobs. Contact them, be persistent, and patient.

Winston



Andy Friz



Job hunting etiquette

Tuesday, March 7 from 3:00-4:00 pm in the CPR. This presentation by the University's Protocol Officer will give you the skills to get through the interview. From handshakes to ordering lunch.

Job search seminar

Wednesday, March 8 from 2:30-4:30 pm in the CPR. This presentation by the Career Center provides information on the job search process for employees and job hunters, with specific information on self-evaluation, job search organization, networking, resumes, cover letters, interviewing, and professional dress.

Interview scheduled

Martin Marietta Information and Communications Systems will be here March 29 to interview people with computer science degrees and knowledge of ADA software. We only have two students signed up, we need more students to sign up for interviews!

Co-op deadline

Admission deadline for Summer 1989 is April 1.

Job update

For current Career Center information, call the Jobs Update at 239-6052.

The View's Incredible!

Anytime is the right time to party hearty at the Ocean Deck.

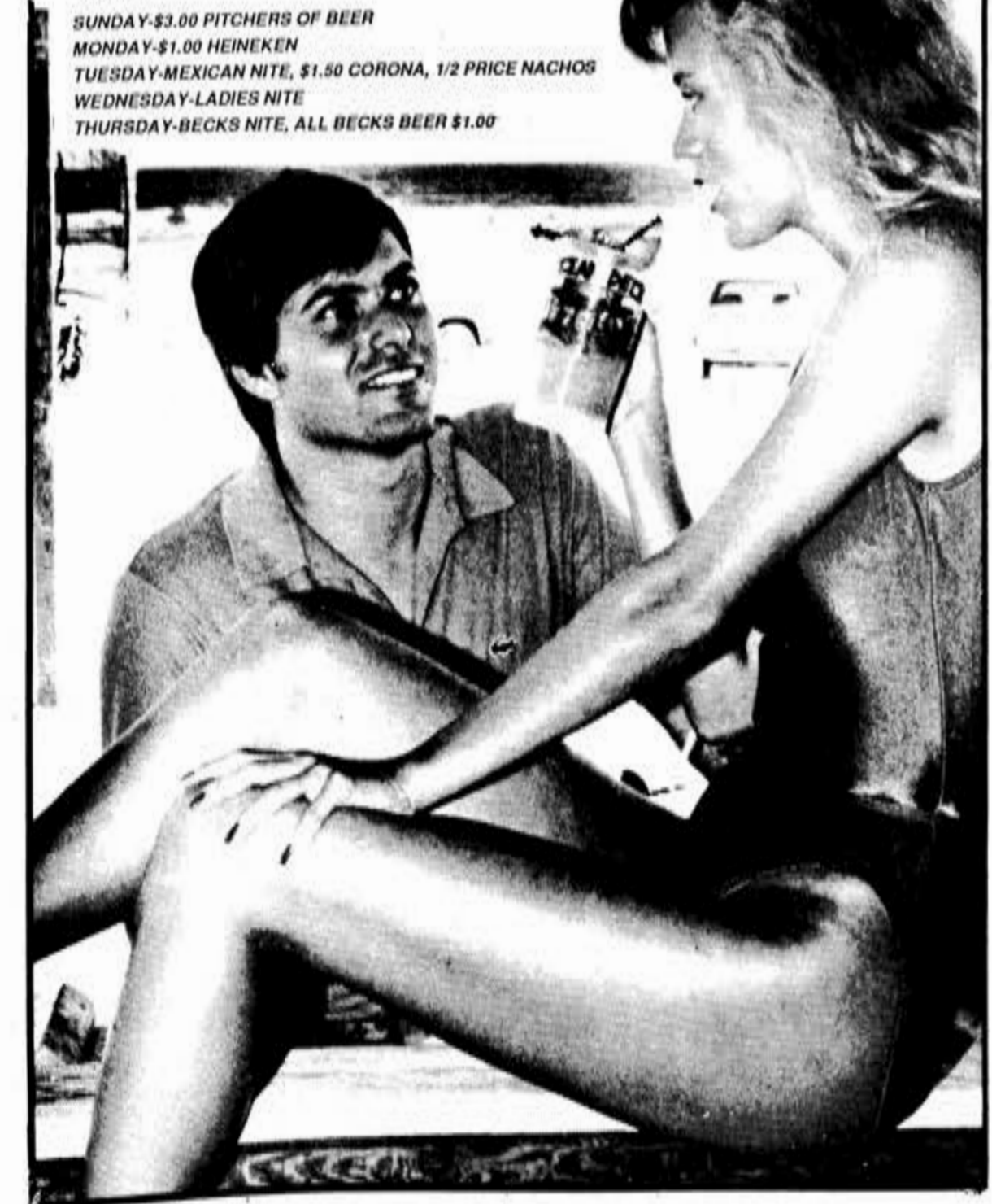
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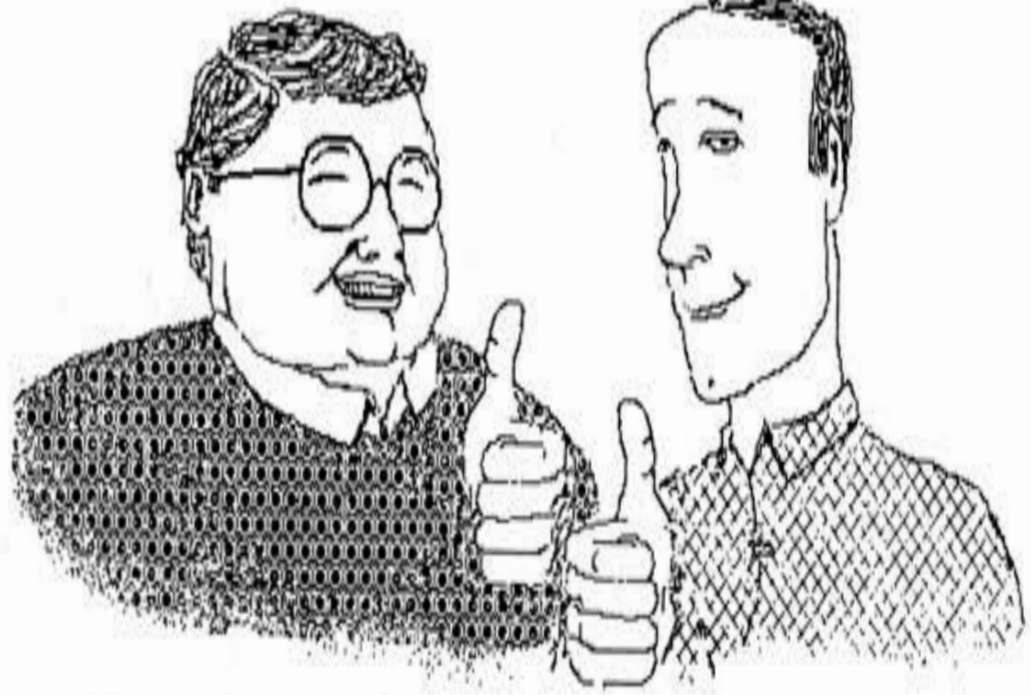
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Avionics leads to Delta Flight line

by Kress Latham
Aeronautica Writer

Ask a few of the maintenance students wading around in the sea of cigarette butts outside P building what they'll be doing three years after they graduate and you'll receive a great diversity of answers.

A certain percentage knows exactly where they'll be. They may have already been involved in aviation and have come to Embry Riddle for a license or two. Others might have a relative in the industry whom they've kept well versed in the every day goings-on at the particular facility where they plan to be employed.

A few of us however, have had no prior affiliation with the aviation industry and have chosen to pursue a career in this field due to a simple love and fascination for aircraft.

So we move along the road to securing an A+P license and invariably approach intersections where we're faced with making decisions that will certainly dictate the course of our future.

These avenues include management, avionics, flight and so on. All the while we're continually barraged by the hear say of our sometimes misinformed peers concerning the pros and cons of these pursuits.

Wouldn't it be nice to spend a day at the destination of one of these endeavors - a sort of sneak peek into one of your possible futures?

Last Saturday, through my association with ERAU alumnus Tim Mildren, I was able to take such a peek and for anyone who has considered a degree in Avionics, it was a truly impressive sight.

Tim graduated from ERAU in 1984 with a B.S. in Aviation Maintenance Technology along with A+P and FCC licenses. He went to work almost immediately at Delta's Atlanta hub. There he was strictly involved with avionics component repair until accepting a flight line position in Orlando. It was the combination of his A+P and FCC licenses that augmented his advancement into this position.

Stepping through the doorway into

the operations room, we are greeted by Tim's co-workers in a cheerful, polite manner that only comes from workers who are content at their job. Two large Cathode Ray Tubes (CRT's) that hang from the ceiling occupy the attention of one of the technicians as he obtains the arrival and layover times of various aircraft from the large, blinking screens.

There are approximately nine technicians on every shift, depending on seasonal traffic load. One of them is voted by his co-workers to the position of lead mechanic and serves to provide technical assistance to any of the men who may run into difficulty.

Every aircraft is checked in some capacity before it leaves for its next destination. If it is to be a short layover and no problems have been reported by the flight crew, a "trip check" consisting of a ten minute rudimentary inspection is performed. A "layover check" is performed on aircraft that will remain static for a longer period of time and a "service check" is administered to others as needed.

If a mechanical problem should arise in flight, the pilot consults his Fault Reporting Manual (FRM) which translates the nature of the condition into a numeric code. This code is then transferred by way of a sophisticated Air Link System to a ground station and arrives at the aircraft's destination by computer. Technicians then use this code in reference to the Fault Isolation Manual (FIM) of the particular aircraft and are troubleshooting the problem even before the aircraft touches down.

These technicians must remain current on every aircraft that Delta operates. These include the MD-88, DC-9, 727, 737, 757, 767 and L-1011. Everything from the tires to the coffee pot is within their realm of responsibility.

The thing that differentiates working on the flight line from working at a hangar is that when you come into work that day, you cannot predict what you'll be do-

see DELTA, page 12

Seven ERAU students enter jet pilot training

ERAU Press Release

Daytona Beach, FL. -- The Air Force Reserve Officer Training Corps Headquarters announced that seven students from Embry-Riddle Aeronautical University have been accepted into the Euro-NATO Joint Jet Pilot Training (ENJJPT) program at Sheppard Air Force Base in Wichita Falls, Texas.

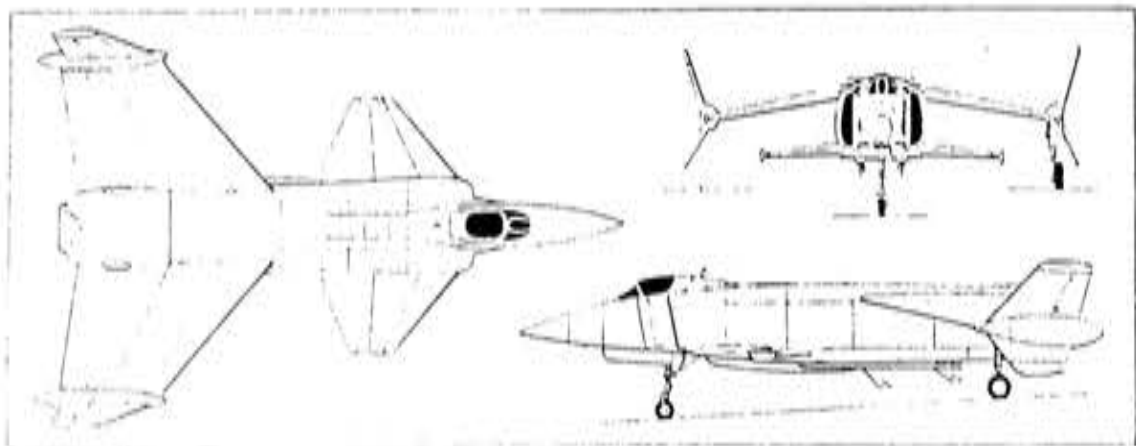
The seven students are: John Black, son of Mr. and Mrs. Anthony Black of Dayton, Ohio; Steven Bonine, son of Mr. and Mrs. Anthony Bonine of Mendota Heights, Minn.; Dallas Brooks, son of Mr. and Mrs. Carl Brooks of Fayetteville, PA.; Michael Coburn, son of Mr. and Mrs. Roy Coburn of Union City, Pa., all from the Daytona Beach campus, and Lance Glidden, son of Dr. and Mrs. Benjamin Glidden of Colorado Springs, Colo.; Scott O'Grady, son of Dr. and Mrs. William O'Grady

of Spokane Wash.; and Steve Speckhard, son of Dr. and Mrs. Mark Speckhard of Saudi Arabia, all from the Prescott campus.

A total of 229 students were recommended by their commanders as having the potential for admission into the prestigious ENJJPT program. The candidates were then screened by a board of senior officers at Air Training Command Headquarters at Maxwell Air Force Base in Alabama. The board considered such things as cumulative grade point average, leadership positions, and flying experience. Only 60 candidates out of the possible 229 were chosen. Upon completion of the program, the men will be trained to fly some of the fastest and most maneuverable jet fighters in the world.

Black, Bonine, Glidden, O'Grady, and Speckhard will all see JET, page 12

AERO IDENTIFICATION



The exact answer drawn of the identity of this aircraft will win a free submarine sandwich of their choice from Sorrento's Deli. The student publication staffs, previous winners, and their families are not eligible.

Last week's Aero ID hasn't been identified. We will try another. Good Luck!

Name _____
ERAU Box No. _____
I.D. Entry _____

United encounters structural failure

by Christine Donnelly
Associated Press

HONOLULU (AP) — A gaping hole ripped open on the right side of a United Airlines jumbo jet carrying 354 people Friday, sucking nine passengers to their death 20,000 feet above the Pacific Ocean, authorities said.

The pilot brought the Boeing 747 back safely for an emergency landing at Honolulu International Airport. Two of the engines had failed, but it wasn't clear whether the failure was connected with the fuselage ripping open.

"He had to dump fuel, and then fly the return to Honolulu and land that plane safely. We would characterize that as heroic," Lawrence M. Nagin, a United senior vice president, said at the airlines' headquarters in Chicago.

The Honolulu medical examiner's office said "multiple small body fragments and pieces of clothing" were found in the one of the right-side engines. Deputy Medical Examiner Mary Flynn said it was not known whether the fragments were from one or more bodies.

United said the missing passengers included six Americans, two Australians and a New Zealander.

Twenty-seven passengers were treated at hospitals and six were hospitalized, including four United crew members.

Federal aviation investigators had not determined the cause of the hole, but were leaning toward structural failure as the likeliest explanation. Initial reports from the pilot

and some passengers indicated they had heard an explosion.

"All of a sudden, I could see the sky and feel the wind," said passenger Koji Yamamoto, 23, of Osaka, Japan. "The roof was breaking. Something was blowing toward us."

United's Flight 811, which originated in San Francisco and Los Angeles, departed Honolulu International Airport with 336 passengers and 18 crew members at 1:34 a.m. (6:34 a.m. EST) for Auckland, New Zealand, and Sydney, Australia. It returned 59 minutes later with a 10-by-40-foot vertical hole in its right side near the front of the craft.

"There is an area where there used to be a cargo door and it's not there any more," said Eugene Glenn, special agent in charge of the Honolulu FBI office. But Glenn said it was not known whether the loss of the cargo door was a cause of the accident or a result.

William Speicher, senior vice president for United's Pacific Division, said at a Friday night news conference that it appeared to him the hole started at the cargo door "and ripped up."

The government last July ordered airlines to improve cargo door lock systems on older Boeing 747s, saying the directive was "prompted by a lower lobe forward cargo door with damaged lock sectors that partially opened in flight." The summary of the directive did not say what flight or what airline was involved.

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Author talks to Aerobatics Club

by Roland Houle
Space Technology Reporter

William Kershner, author of most of the flight manuals Embry-Riddle uses, came to Daytona last Friday to talk to ERAU students. Since he was sponsored by the Aerobatics Club and Eagle Flight Center, his primary topic was aerobatics.

In approximately one hour, Kershner highlighted some of the problems and pleasures related to aerobatic flying. He also went over the contents of his flight school's aerobatics course.

He brought up several valid reasons for taking an aerobatic course. For instance, students learn how to control the aircraft in its entire envelope. The author pointed out that all military pilots are required to take at least some aerobatic training, no matter what they may fly. In short, he said aerobatic training makes good pilots better.

With a model of the Cessna T-37, Kershner demonstrated various aerobatics maneuvers. Some of these include the aileron roll, loop, cloverleaf, Cuban 8, spins, and Immelmans.

With his extensive sense of humor and a rubber chicken, Kershner told his audience, of approximately 75

Embry-Riddle students, that the biggest problem in aerobatics is nausea, but that it may be overcome.

After his enlightening speech, the author signed copies of his books that students had brought with them. Among his books that Embry-Riddle uses are *The Private Pilot's Manual*, *The Advanced Pilot's Manual*, and *The Flight Instructor's Manual*.

In addition, the Aerobatics Club, which is sponsored by Eagle Flight Center, will use another one of Kershner's books, *The Aerobatic Manual*, to instruct its members.

Starting at age 16, Kershner has accumulated slightly over 9,000 hours in many types of aircraft. Over 4,000 of these hours have come from instructing alone.

He started writing flight manuals in 1959, almost on a dare from his colleagues. In six weeks time, he produced his first student pilot's manual and has continued to write since then.

Kershner, who has flown in a number of small airshows, served full time in the Navy from 1951 until 1955, when he entered the



Photo by Joe Scamach

Reserves. In addition to his writing, Kershner also teaches aerobatic flight lessons in the Cessna Aerobat.

Honeywell tests Traffic Alert and Collision Avoidance System

by Robert Watt
Aeronautics Editor

Honeywell's Air Transport Systems Division released details of its Traffic Alert and Collision Avoidance Systems (TCAS) Limited Installation Program (LIP) being conducted in conjunction with Northwest Airlines (NWA) and ARINC Research Corporation.

The TCAS is a self-contained supplement to ground-based air traffic control. Honeywell's TCAS II tracks other aircraft up to 40 nautical miles away, evaluates collision potential and displays/announces traffic advisories, including recommended evasive action in the vertical plane.

Federal law and FAA rules require that large commercial aircraft flying in U.S. airspace be equipped with TCAS equipment by Jan 1992.

The report, prepared for the Federal Aviation Administration (FAA), covers a two-month period from Sept 21, 1988, through Nov 28, 1988. The report's objective is to advise the FAA of the status of the LIP and present technical and operational findings discovered during the reporting period.

The Honeywell/Northwest LIP is being conducted on two Northwest MD-80 aircraft operating in scheduled, revenue service within the airline's route structure. Each aircraft is equipped with Honeywell's TCAS II equipment and a dedicated data recorder. The overall objectives of the LIP are to provide the participating parties as well as the aviation industry with operational experience with TCAS II, to obtain crew inputs on the TCAS design concepts and to assess the impact of TCAS on the air traffic control (ATC) system.

During the reporting period, the following tasks were accomplished: first, the Supplemental Type Certificate (STC) was received for the Honeywell TCAS II installed

prior to installation of production-quality equipment.

During the reporting period, the two aircraft logged a total of 726 flight hours on 415 flight segments. Fifteen cities in the continental United States were served, from Santa Ana, California and Phoenix in western United States to Boston and Philadelphia in the east, to Minneapolis in the north to Memphis in the south.

There were 561 Traffic Advisories (TAs) and 25 Resolution Advisories (RAs) recorded.

Of the 25 RAs, 17 were "corrective" and eight were "preventive." A corrective RA calls for a change in the aircraft's vertical flight path; a preventive RA advises against a change of vertical rate -- in effect, saying "Don't change what you're doing."

As expected, most of the RAs occurred in the areas of Santa Ana and Minneapolis. Santa Ana has one of the highest concentrations of transponder-equipped aircraft in the world and both TCAS-equipped aircraft are in and out of Minneapolis almost daily. Only one of the RAs occurred outside 50 miles of a terminal area.

Based on analysis of the data recordings, the collision avoidance logic performed correctly in each of the encounters.

Input from individuals who have observed the system and talked with the crews have indicated a very high acceptance rate from the pilots. The majority of the crews feel the system is most beneficial in high density traffic areas. Of great importance is the fact that crews have confidence in the information being provided by the system.

Issues that have arisen from pilot comments include that some crews feel that TCAS should be pilot-selectable to provide a full-time display when inside the terminal area. A number of crews are concerned by the occurrence of low altitude TAs, they feel that the aural, at least, should be

Traffic Alert and Collision Avoidance System



- A...Intruder detected; time:60 seconds
- B...Range acquisition; time:50 seconds
- C...Traffic advisory posted; time 45 seconds
- D...Intruder declared a threat; time 35 seconds
- E...Resolution advisory posted; time 30 seconds
- F...Conflict Resolved

Graph by Robert Watt

on NWA MD-80 aircraft. Second, the LIP was initiated on Sept 21 with both aircraft operating in revenue service. Next, TCAS pilot training was conducted with approximately 97 percent of the airline's MD-80 pilots having received training. Also, an observer program was initiated with an initial cadre of observers from Honeywell, NWA, ARINC Research and the FAA. Additional industry observers were solicited; more than 70 have been identified. Finally, based on pilot feedback, a change was made to inhibit voice annunciations for traffic advisories when the TCAS aircraft is less than 500 feet above ground level. During the current reporting period, the overall reaction by NWA has been extremely positive. This includes flight crew acceptance of the system. Minor problems that have been identified reinforced all parties' belief that the LIP is an essential tool in identifying and correcting anomalies

inhibited at some altitudes. During the initial weeks of the LIP, several comments were received regarding the sound volume of the aural annunciation. The volume level was subsequently decreased on both aircraft and no additional comments have been received.

In addition to data recorder information, valuable information has been gathered from the questionnaires that crews fill out after every TCAS encounter. Pilots' verbatim comments indicate enthusiastic acceptance of the Honeywell TCAS II equipment specifically and of the TCAS concept in general.

During the current reporting period, the industry observer program has been initiated, data collection and analysis activities are continuing and follow-up questionnaires are being distributed to all MD-80 flight crew.

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Vidiots...

The new snack bar arrangement restricts access to the video games that used to be on the flight deck.

Access to video games denied

by David Fekke
Campus News Reporter

At the beginning of the Spring semester, the video games were moved from the old Flight Deck area to the new U.C. "Snack Bar". A popular pool table was also moved, but not to the snack bar. Instead it was removed due to vandalism that extended over a long period of time making it not worth the cost to repair and replace broken components.

In addition, since the beginning of the semester, the video games have been closed off to the students after 9 p.m. weekdays and all weekend long.

The only forms of entertainment left for the students living on campus are the lounge televisions.

Jim Tyson, Director of Safety and Security, said that the snack bar has to be secure before students can be allowed in to the video game area. One of the possibilities is that an accordion type door can be put in front of the snack bar or a door can be installed from the U.C. side of the game room. A new door could be installed if it were financed by the University Bookstore.

The video games are owned and serviced by the bookstore. Robert Long, manager of the University

Bookstore, said "The reason the pool table was removed, is that it was being vandalized, students were putting cups in the holes, and they were stealing the balls."

When the Office of Facilities and Planning was asked about the possibility of having a roll-bar installed into the snack bar, they replied that they do not have adequate funds to do so. Roll-bars are used in front of stores when they close so people can not get in and vandalize.

Kevin Adesunloye, a resident of Dorm 1, said, "The video games are the only form of entertainment besides the televisions that students on

campus have during the weekends. I think the removal of the pool table was a mistake, and it was a mistake to move the video games from the U.C. to the snack bar. The video games should be moved back to the U.C."

Clinton Jones, another resident of Dorm 1, said "I don't use the games very often, but I feel that students that do, should be able to use them on weekends. They need more games. I think that the pool table could be put back in to the flight deck because the snack bar has been moved and it is safer."

Brothers of the Wind host concert Runaway truck invades AC-1

by David Fekke
Campus News Reporter

The Brothers of the Wind, Kappa Alpha Psi and Student Activities last Friday night sponsored a band by the name of 'Strictly Business'.

The concert, which started in the U.C. at approximately 8:30 p.m. was the big bash for the end of black history month.

The event was directed by Leroy Young. He said, "We want to make people here at Embry-Riddle more aware of the black culture". Last week Willie Mae Church gave a speech for the Brothers of the Wind. The theme of the speech was 'A glimpse into the past, and dreams for the future'.

Strictly Business consisted of a keyboardist, a basist, a drummer, a guitarist, and five vocalists. Lloyd Carter, the band's basist, said "The music that we do is normally jazz, but we will be playing pop, rock, soul, jazz, and fusion, a mixture of jazz and rock."

The band started out by playing two jazz improvisations. Right afterwards, the singers came out and sang the song 'Your my lady' by Freddie Jackson. Next the band did their rendition of 'My Perogative' by Bobby Brown. Then they did a song titled 'Vanessa'. The singers left and the band played an instrumental by George Benson called 'Breeze'.

The band did a blues traditional and a funk rock instrumental just before they took a break. After their break the band and singers came out and did a song called 'The Butt'. They then performed a Stevie Wonder song called 'Isn't she lovely'. 'The Greatest Love of All' by Whitney Houston was next. The last two songs were 'Boys to Men' by the New Edition and 'I'll be there' from Michael Jackson. To end the show, the grand finale consisted of the members of the band playing a solo with their respective instruments and vocals.

by William Wynne
Campus News Reporter

A driverless dump truck jumped the ditch in front of Embry-Riddle's Apartment Complex One (AC 1) and crushed one student's car and damaged three others last Thursday. This occurred when a Volusia County dump truck broke free of the tow truck that was pulling it west-bound on Route 92. The truck then crossed the six-foot-deep ditch between the road and the AC 1 parking lot, emerging airborne.

The truck hit two cars knocking one 65 feet and flipping the other before coming to rest on it. Both cars were owned by Embry-Riddle students. No one was in the either of the cars at the time.

Students at the scene estimated the truck was going about 40 mph before it broke free of the tow truck.

Lisa Fett, owner of the crushed car, said she was upset initially, but later took in stride. She had the car only six months, but "loved it". Her roommate, Alison White, said "I was just glad no one got hurt."

Jeff Detig, owner of the car which was knocked 65 feet, said "When my roommate told me my car was hit by a truck, I thought he was joking." When students realized that no one was hurt the mood at the accident became lighter.

"I didn't see the actual accident, but when I came back from class, it was total devastation. At least 20 feet of the front fence was ripped out and there was oil and glass

everywhere!" said Earl Stephens Jr., Resident Advisor at AC 1.

Many speculated what Riddle security would do if they discovered the vehicles so "carelessly parked" or if they were aware that the truck had no parking sticker.

Joviality went a little too far when someone took the license plate off a state trooper's car. The plate was returned before the officer got too

mad. The mess took three hours to cleanup.

Volusia County, owner of both trucks, provided Detig with a rental car. Detig said his car sustained about \$4,000 damage, and was going to be repaired. Fett said her car was totaled. The county did not offer her a rental car, but she was able to borrow one.



Bowled over...

A Volusia county dumptruck broke loose while being towed down U.S. 92. The truck crossed the median and crashed into parking lot of AC-1, damaging several cars. Fortunately no one was injured in the incident.

Security does more than tickets

by Jason Simon
Campus News Reporter

Many students think that Embry-Riddle Security only has one job; to give out parking tickets. This is far from the truth.

Embry-Riddle Security has many valuable programs that are available to our students at little or no expense.

The most widely known service is the Call A Ride And Live program (CARAL). This program is sponsored by the SGA. CARAL provides students a free ride home if they have had too much to drink. The service is in effect every Friday and Saturday from 10 p.m. until 4 a.m.

Other programs include bicycle

registration by the Daytona Beach Police and Security. Registration with the police costs one dollar and is required. If your bike is not registered it cannot be identified if stolen. In addition a police officer can pull you over, on your bike, and impound it because you cannot prove that it is yours. This service is strongly recommended.

Operation I.D. is a very simple program that involves engraving your personal property. An engraver is available from security, on loan, at no charge.

In case your wallet or purse gets stolen, security provides operation Quick-Lert. Quick-Lert is a list of commonly used phone numbers for

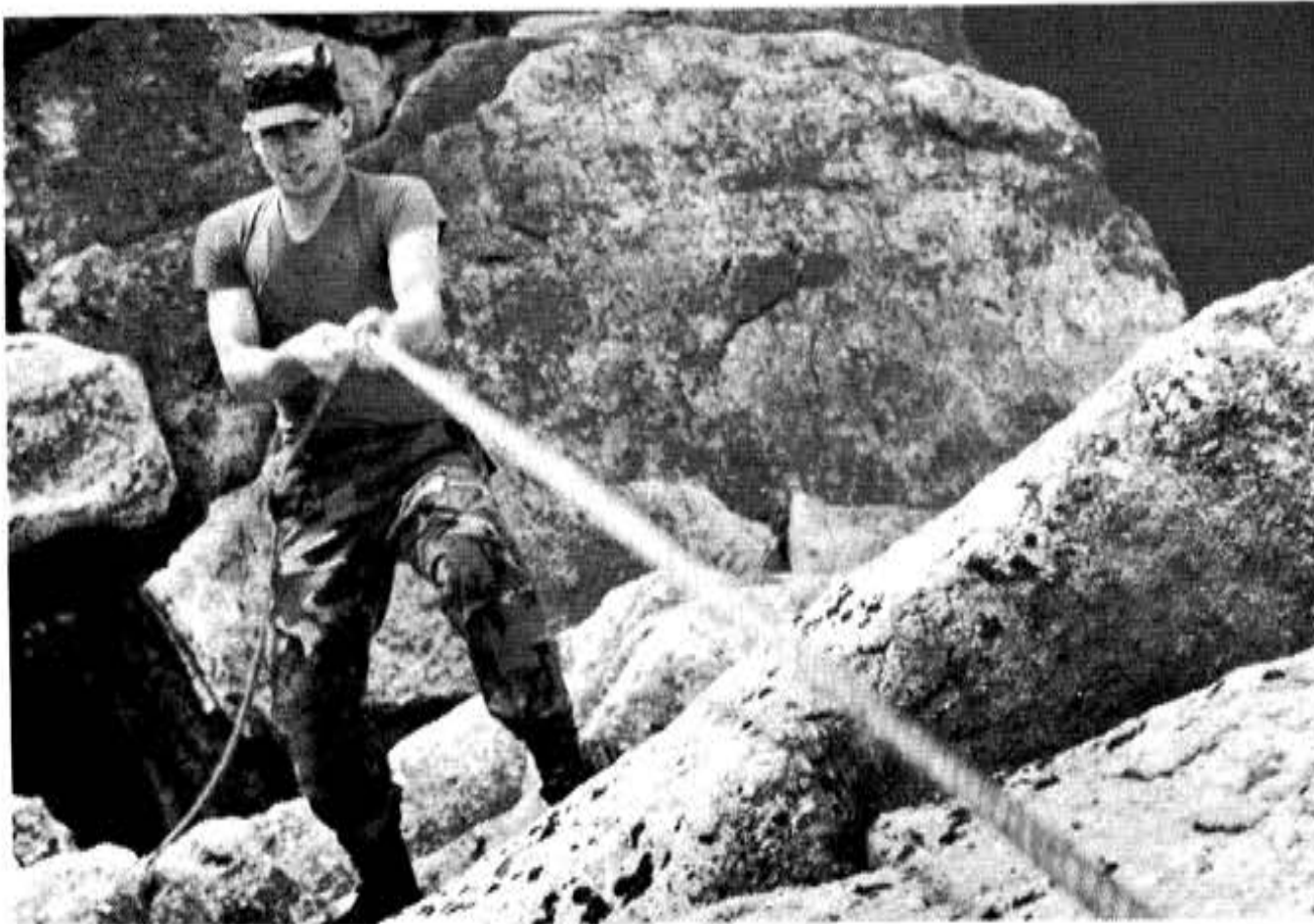
credit card replacement, local banks, law enforcement agencies, hospitals, driver's license and Social Security offices.

Security provides access to locked rooms. They also provide a vehicle watch if it becomes necessary to leave school for an extended period of time. Security for special events such as Attitude Adjustments and in school concerts and events is a top priority of Embry Riddle Security.

The program that security would like to see used more often is the escort service. Security will escort anyone, at anytime to their car or dorm. If after a long evening in the computer room you feel unsafe

see OTHER, page 12

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Campus Notices

Learn Fencing

If you are interested in fencing, the fencing club has just recently been organized. Instructional classes have been set up, and a certified fencing instructor from DBCC will be teaching club members on a regular basis. To get involved, write a letter to Martin S. Shepherd ERAU Box 1-126

Include your name, phone number and time of availability.

Students get a free ride

On Wednesday, March 1 and Thursday March 2, the Eagles Softball Team will be playing at City Island ball park.

On Tuesday March 7 the Eagles will be playing in Deland.

A free bus trip will be provided to these games. The bus will pick up any students or faculty with Embry Riddle I.D. The bus leaves at 6:15 p.m. and returns after the game.

MA/PS seminar series

- Mar 9 Dr. Zoubir Benzaid
Control Theory of Differential Equations
- Mar 30 Dr. Selwyn Hollis
Problems in Reaction Diffusion Systems
- Apr 13 Dr. L. Narayanaswami
Solid Propellant Rocket Research

All seminars are presently scheduled at the Riddle Theater at 1:30 p.m. in A Building. Students are welcome.

Income tax help

If you feel that you need help in preparing your 1989 tax return, go to A building, Room A-117 any Tuesday night between 5:30 p.m. to 8:30 p.m. until April 15. It's a free service provided by VITA (Volunteer Income Tax Assistance).

Free tutors available

Many departments on campus provide tutors free of charge to Embry-Riddle students. Some of the departments offering such services are:

Math, Physics, Chemistry: Weekdays from 10:30 a.m. to 4:30 p.m. in Room A-106.

Accounting: MWF from 2:30 p.m. to 4:30 p.m. and TR from 2:00 p.m. to 5:00 p.m.

Writing: Get help with written assignments in any course offered. Writing Lab Room A-106.

Poetry contest

Students talented in poetry can enter a contest that has \$11,000 in prizes available. A Grand Prize of \$1,000 and First Prize of \$500 plus many other cash awards will be given by the American Poetry Association.

"Students are often winners in our contests, and we would like to see more students' poetry," said Robert Nelson, Publisher for the Association. "We want to find undiscovered poets and give them the recognition they deserve. This year our winners will be published and publicized to the utmost of our power."

Poets may enter the contest by sending up to six poems, each no more than 20 lines, name and address on each page, to:

American Poetry Association
Dept. CT-22
250 A Potrero Street
P.O. Box 1803
Santa Cruz, Ca 95061-1803

Each poem is also considered for publication in the American Poetry Anthology, a leading collection of contemporary verse. The contest is open until June 30.

Kick a habit

Learn how to rid yourself of troublesome habits such as smoking, overeating, phobias, tardiness, procrastination, low motivation, nail biting, and anxiety. This experiential group will meet weekly for four, two hour sessions, during the weeks of Feb 20 to Mar 17.

Learn self defense

Learn defense against personal assault and property loss through informational and physical demonstration. Information will be valuable for men and women during the high risk time of Spring Break.

Date: Tues, Mar 7
Time: 8:00 p.m. - 9:15 p.m.
Place: Dorm 1 lobby

Coaches Corner

Listen to "Coaches Corner" with ERAU head baseball coach John Filor, weekdays at 3:45 p.m. on WROD. "Coaches Corner" will be presented daily on WROD through April 7.

Faculty Regalia

The University Bookstore cashiers will be accepting orders for cap, gown, and hood rentals for April's graduation, from Feb. 27 thru Mar. 10 weekdays 8:30 a.m. to 4:30 p.m.

SGA elections

Applications are now being accepted for Student Government President and Vice-President, Student Representative Board, Student Finance Board and Chief Justice positions. All applications can be picked up in the SGA office and must be turned in by Mar 3. All positions are for the 1989-1990 school year.

Apartment care

These apartment care tips are provided by Off Campus Housing.

Cleaning your new "home" when you first move in, then keeping it clean will add greatly to your feeling of "belonging" in your temporary home. Dirty units attract insects and rodents. Cleaning and maintaining the unit are relatively easy if done on a regular basis.

1. Everyday
 - a) If you cook in the kitchen clean up your mess. Wipe the counter and check the floor.
 - b) Keep the top burners of the stove clean as you cook.
 - c) Keep things generally picked up daily.
 - d) Take out the trash daily.
2. Weekly
 - a) Clean the bathroom.
 - b) Vacuum thoroughly and dust furniture (in that order).
 - c) Change bedding, towels, etc.
3. Monthly
 - a) Scrub the kitchen and bathroom floors, sooner if necessary.
 - b) Wash down the shower curtain.
 - c) Clean the stove and refrigerator.
 - d) Air out the unit for several hours by opening windows and doors whenever possible.

Dream interpretation

In the first of a two part series, Dr. Norman Brown, ERAU psychology instructor, will present the theory and practice of dream interpretation. Questions from the audience regarding their own dreams will be entertained. Dream Interpretation will be held Thurs March 9 from 1:30 p.m. until 2:25 p.m. in Room A-109.

Spring F.L.A.S.H.

F.L.A.S.H. (For Leisure Student And Health Fair) Health testing, body composition analysis, computerized rowing machine contest and information display. Get checked out Mar 7 - 8 from 11 a.m. until 2 p.m. in the U.C.

Safety by awareness: Stress can kill

by Erika Foster

I am one those people that are so common here at Embry-Riddle, a stress seeker. I look for new projects responsibilities, and challenges. At this time I am active in three organizations, hold a part time job, fly, and take the usual classes. This is a reduction from my load last term. I had to reduce this load for one major reason, stress.

This is a silent, but common, problem in this university. Many of us are over achievers, but we try to maintain the "cool" pilot image or try to live up to what we think our peers are doing with ease. There is another side to this story, safety. I have written on stress vs. safety before, but I would like to take another look at this important subject from a slightly different perspective.

In primitive time people had a standard release for stress, fight or flight. This instinct prepared the body for the exertion of either fight or flight by speeding up the heart rate, breathing rate, etc. In 1974 Selye defined stress as the "non-specific response of the body to any demand made upon it". The problem is that in

If you're thinking of the blond that you last saw your boyfriend with...you are not going to be the most attentive flight student...

this day and age we can't just fight the people that irritate us at work, or run from our problems, what we need is a cool head to deal with these occurrences. So we have no need for these preparations that our body has made for us. When not used these body responses can be harmful. What was an increase in breathing rate to help us deal with exertion could turn to hyperventilation when not used. The same goes for blood pressure, etc.

There have been several studies on the effects of suppressing this natural instinct. Much of the findings led to one conclusion, that in this modern society people suffering from the negative effects of containing stress.

Another factor of stress is the distraction that it can cause in the cockpit. If you're thinking of the blonde that you last saw your boyfriend with, the test in your next class, or the problems of the club your in, you are not going to be the most attentive flight student. This is when you need to rethink your priorities and your work load.


Sometimes when the stress starts to mount, we need to sit down and lay out our priorities. The first question you should ask yourself is, what am I here for? For most of us the education is the most important. Yes folks, that club that you do so much for is not the first priority, if it effects your flying or your classes maybe you should rethink it. The stress will get worse if you "flag" that \$2,400 flight course. (But mom!...)

In most cases a clear view of what comes first will see SAFETY, page 12

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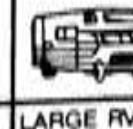
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by David Fekke
Campus News Reporter

The ERAU Christian Fellowship Club hosted a special presentation last Saturday at the flight deck in the U.C.

Students from Stetson University and the Florida Institute of Technology were at the meeting. The evening was hosted by the president of the fellowship, Murphree Hyde.

The meeting began with a prayer and several songs, accompanied by two guitars and a banjo.

The first speaker was The Reverend Ray Ivey, of the First Baptist Church of Daytona Beach. He is also the head of the Inter-collegiate Christian students.

The central speaker was Ralph Youngquist, a graduate of the University of Central Florida with a degree in Engineering. He has been working for General Electric for about five years.

When asked about the students at the meeting, he said, "This is a very good group, Embry-Riddle should be very thankful". He spoke to the crowd for about 45 minutes about

God. The Christian Fellowship plans to have a guest speaker and a student celebration on March 9. The speaker will be Clebe McClary. He is a highly decorated marine from the Vietnam War. He wrote the book *Living Proof*. He also has a movie called "Portrait of an American

Hero". He lost his arm and an eye in the war. The band Gabriel will be performing there as well.

The Christian Fellowship meets every Saturday in the Common Purpose Room at 6:30 p.m. Anyone interested in joining the Fellowship should come the Saturday meetings to find out more.

by Phyllis A. Salmons
Copy Editor

The Wright Flyer, a full-scale diorama which will depict the liftoff of the first powered flight of the Wright Brothers, is being fully funded by contributions. The sculptor, Larry Godwin, was in town last Thursday to discuss project details including contract agreements with University officials.

"The intent is to seek contributions from foundations, organizations and individuals from outside the aviation industry," said Jim Harman, Vice President of University Relations. "We have an ambitious goal of raising \$150,000 to pay for the initial costs as well as set up an endowment fund for future maintenance."

Harman said the University has approached about 100 private foundations in Florida and 30 national corporations. The University intends to approach only those organizations who may support projects based on their historical and/or artistic merit. "We are not approaching those in the aviation industry because we will be talking to them soon concerning two major academic projects in the planning stages."

At this time, most of the stainless steel needed for the Wright Flyer has been donated by Washington Steel Company of Washington, Penn. This contribution has an estimated value in excess of \$20,000 according to Harman and Godwin. "We will also approach other firms for donations of materials for the entire project environment," said Harman. Such essentials may include support, landscaping and lighting materials.

Advance gifts and commitments received include an unsolicited donation of \$5000 by a parent of an ERAU student. Another \$5000 has been donated by the Student Government Association and \$500 was given by the graduating class of December 1988. In cash and commitments, it is estimated that \$30,000 has been raised toward the project.

One of the next steps in fund raising will be a major drive in the local community. The hope is that the Wright Flyer will be a source of community pride and a principal attraction for tourists. Also, alumni will be approached after the Annual Fund Drive has ended. Individuals who are known aviation enthusiasts will also be identified to be allowed to become a part of the immortalizing of the historical flight.

The Wright Flyer Monument Committee is being formed with Don Lopez, an ERAU alumnus who is the Deputy Director of the Air and Space Museum, as chairman. Members of the committee will be aviation notables who will serve on the international committee whose purpose is to support the private fund raising effort. According to Harman, the Wright Flyer Monument Committee will "add greater universality to the project."

"The first milestone in the fund raising for the Wright Flyer project is raising enough money for the sculptor to start his work," stated Harman. The target date for completion and dedication of the project is in the fall of 1989, to coincide with ERAU Aviation Homecoming Week and Florida Aviation Week.



photo by Joe Szarnach

Praise...

Ralph Youngquist spoke to a gathering of the Christian Fellowship and guests from Stetson University and Florida Institute of Technology. Youngquist spoke on the power of prayer.

Police on campus spark controversy

by Jason Simon
Campus News Reporter

"Suckered By Security" was the title of a letter to the editor printed in the *Avion* two weeks ago. The letter was written by student Rick Harris. Harris filed a formal complaint with the police department regarding incidents described in the letter.

In his letter, Harris claimed that his rights were violated when he was "harassed" by Sergeant Grim, a Daytona Beach Police Officer after being cited for an illegal left turn onto campus near the Army ROTC building from Clyde Morris Blvd.

According to Jim Tyson, Director Of Safety, the Daytona Beach Police were invited on campus. Those making this illegal turn are creating a dangerous due to oncoming traffic and traffic outbound from the school.

According to Grim, Harris made an illegal left hand turn onto campus. In his letter, Harris admits to this. After being flagged down Harris received a citation. According to Grim, Harris

ripped the citation out of his hands. Harris then proceeded to squeal his wheels in disgust.

At that time, Ralph DeSantis, an Embry-Riddle security officer on the scene, requested Harris' student I.D.

Harris then stopped the truck and proceeded to tell the officer "you're pissing me off! Get out of my ... face!" Harris then insisted that the police had no right to be on campus. Grim retorted "Son, do something

he tried to flash his license, but Grim was able to confiscate the license and give it to the university official.

The next day Harris spotted the police at the same intersection. He deliberately made a U-turn on Clyde Morris just to give the officers "the finger". He then parked his truck and walked over to Grim and said "I'm going to have your job. This may come down to taking a lie detector test!" then stormed off.

Harris proceeded to file a formal complaint against Grim with the Daytona Beach Police Department. The complaint was investigated by Lieutenant O'Brien. After interviewing Grim and several student witnesses, O'Brien concluded L... Harris' complaint was unfounded and Grim acted in a professional manner throughout the ordeal.

That day, the Daytona Beach Police cited over 40 violators. The police are still permitted to give citations on campus with the authorization of security.

In his letter, Harris claimed that his rights were violated when he was "harassed" by Sergeant Grim, a Daytona Beach Police Officer after being cited for an illegal turn onto campus near the Army ROTC building..

Harris refused to stop the truck and Grim then made a verbal request for Harris to stop the truck.

Harris continued to allow the truck to roll so Grim reached into the cab of the truck and tried to pull the door open.

stupid and I'll show you how much right I have."

DeSantis then requested to see Harris' I.D. again. Harris then proceeded to quickly flash his identification. He was then requested to show his drivers' license. Once again

WRIGHT

(continued from page 1)

Members of the committee coordinating the project said there is a possibility that students may be used once the on campus construction begins.

Fund raising for the project is in process, with about \$30,000 having been donated. Most of the necessary steel has been donated by the Washington Steel Company of Washington, Penn. The estimated value of the steel donation is in excess of \$20,000.

Further information about the funding of the Wright Flyer project may be found in this issue.

University President Kenneth Tallman predicted the sculpture

will be "one of the prime attractions for tourists to the Daytona Beach area as well as being a campus focal point and source of pride for the students and faculty."

The original idea of building a replica of the Wright Brothers aircraft came from two Embry-Riddle students, Shannon Murphy, a 1988 graduate working for McDonnell Douglas, and Phil Delange, a 1988 graduate who works for LoPresti Piper Aircraft Engineering Company. The students considered many projects but selected the Wright Flyer because of the association between the historic occasion and Embry-Riddle's dedication to the aviation industry.

1. Keep track of your belongings. Don't leave them where someone could easily pick them up—empty classroom, the seat of a car, your unlocked room, the library or dining hall.

2. Don't flash your cash or brag about your valuables.

3. Put your driver's license number and state on your property. Use an indelible marker, stickers, nametags, or an engraving tool. Ask your police for help.

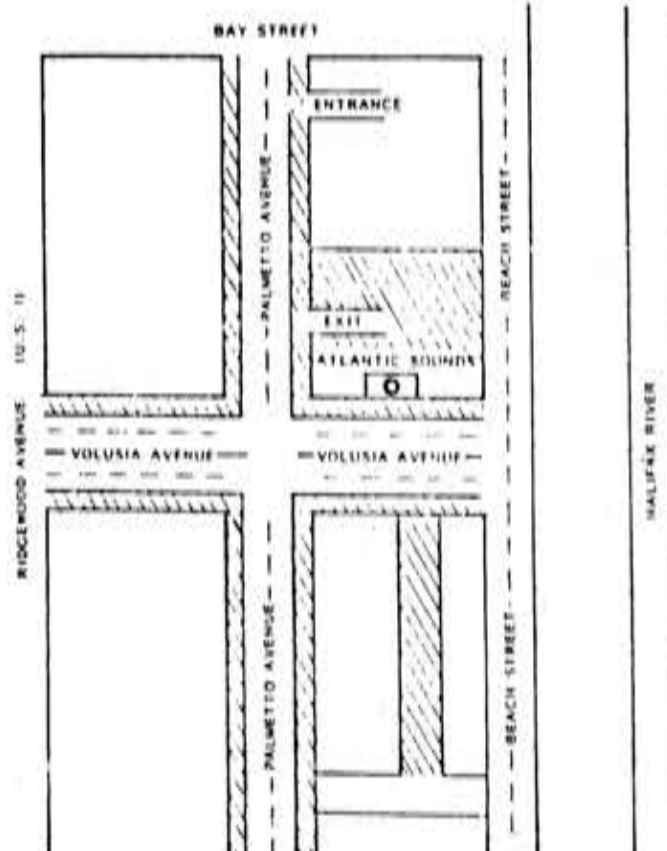
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Army ROTC

by C/MAJ Jim MacKay
P.R. Officer

Are you a sophomore, with no prior military experience, looking for a summer job? If you are, Army ROTC can offer you a challenging, exciting, rewarding, and profitable summer job. It is called Basic Camp. It is designed so that you can explore and find out what the Army is really like, and whether a military career is right for you. Additionally, you will be challenged to see whether you have "the right stuff" to be a commissioned officer. The best part is, you will get paid for the opportunity.

If you accept the challenge of Basic Camp, you will attend six weeks of training at Fort Knox, Kentucky. While there you will learn such varied things as the history and role of the Army, and how to fire different weapons ranging from an M-16 rifle to a 105 mm Howitzer artillery piece. You will be challenged physically by regular conditioning drills which help prepare you for the thrill of stepping off of a 40 ft tower and rappelling to the ground. For your six weeks of training you will earn approximately \$600. In addition, all of your transportation, meals and medical care will be paid for by the Army. For all of this, you will not incur any service obligation. This is an opportunity to check out the Army, without making any commitment to further ROTC training.

Think about it. If you would like to spend part of your summer in a challenging program, getting into shape, developing some exciting new skills, and having a great time, Basic Camp is for you! If you are interested in attending, or simply have questions about Army ROTC, stop by M building, or call 239-6470, and speak to Major Dennis Fitzsimmons.

AFROTC

by P.R. Officer

This semester has been very profitable in the areas of fund raisers and preparing our underclassmen for summer camp.

Over the past two weeks, the corps worked many long hours at the Daytona Speedway and is once again financially self-sufficient. The majority of our funds for social and athletic functions come from working the races. Most cadets volunteer to work at least one shift (between four and eight hours), but many have worked as much as 40 hours. We'll also work the motorcycle races next month.

This past weekend marked the fourth of eight sessions of Preparation for Field Training (PFT), a Saturday morning extravaganza for all cadets hoping to attend Air Force ROTC Field Training this summer. Attending cadets, nearly all of our sophomores, learn the values of team-

work, leadership, and physical fitness in a military environment. The PFT team; a senior chief and several junior staff members, put the camp-bound cadets through challenging physical training to better prepare everyone to have an outstanding summer camp.

This training also benefits our cadets during drill competitions. Last week's competition saw flights competing in marching, knowledge of military customs and courtesies, uniform wear, and physical fitness. Each flight accumulates points towards the coveted 'Honor Flight' award. Only one flight of the four in each of our five groups walks away, at the end of the semester, with this award.

To all cadets who volunteered their time to work the auto races, thanks for a job well done! Let's get out there again for the bike races and make this the best semester yet for Detachment 157.

Management Club

by Jeffrey Hyae
Club writer

The Management Club has gotten off to a fabulous start this spring. On Feb. 15, we hosted Don Doyle, Station Manager for American Airlines here in Daytona Beach. He was very funny, and provided us with a wonderful evening of entertainment, as well as interesting information on the future of American Airlines.

On Feb. 22, we had a video presentation by NASA, entitled Footsteps of Giants. It covered the period from 1961 until the Challenger disaster in 1986, and showed us the adventures that the United States has experienced in its space program.

Tonight, we plan on having a guest speaker, which was not known at the time this article was submitted for publication. Our upcoming schedule is a busy one. It includes a trip to Delta's Tampa maintenance facility with Mr. Moxley and some of his students, a doughnut sale to raise funds, more guest speakers, and a dinner meeting featuring Otto Swanner, Vice-President of Production, General Electric Aircraft Engine Division, Cincinnati.

For more information on these and other events, please attend a future meeting. In order to continue membership, current members also need to be aware that dues need to be paid by March 15. Members who have not paid after that date will be dropped from the club's mailing list. Dues may be paid at any time, and are \$7 per semester.

Our meetings are held on Wednesday evenings at 7 p.m. in Room E-609. We sincerely hope that you will join us, and become part of one of the best clubs on campus.

AIAA

by David Strom
Club writer

Well, we past the halfway mark, folks, and pretty soon the smell of April will roll around. For some AIAA members, the smell of graduation will also roll around. Good luck from now on to those who are! For the rest of us, I wish even more luck.

Last week AIAA hosted National Engineers Week here at Embry-Riddle. Some of the very successful activities included tours of the Engineering Building for students from Seabreeze and Spruce Creek High Schools, and a dinner meeting featuring Roy Lopresti from Lopresti/Piper Aircraft Engineering in Vero Beach. His topic was "The Current State of General Aviation." Many students from Embry-Riddle and members of the Cape section attended.

Last Saturday, a balsa and paper glider contest was held. Gift certificates from Ace Hobbies, a long time supporter of our glider contests, were given to first, second, and third place

winner in two categories: endurance and range.

The winner of the balsa endurance was Chris Bovias with second place going to Brian Kraut, and third to Kal Weller.

The balsa distance winner was Brian Kraut, second place Chris Bovias and third Kal Weller.

The paper endurance contest winner was Eric Edgerton, with second place going to John Rock. Paper airplane distance winner was Eric Edgerton, with second place Chris Bovias, and third place John Rock. Congratulations to all the winners.

Special thanks goes to all who helped at the various events and to those who sold T-shirts on Tuesday and Wednesday.

The next club meeting will be tomorrow (March 2) at 1:30 p.m. in Room E-609. Upcoming activities will be discussed. Anyone who wants to come, please do and show your support. A reminder goes to all members to pay your local dues.

Aerobatic Club

by John Freas
Club writer

Bill Kershner spoke to the standing room only crowd at the first meeting of the Embry-Riddle Aerobatic Club last Friday night at Eagle Flight Center. Mr. Kershner spoke on subjects ranging from the A.B.C.'s of aerobatics to the benefits of aerobatic training for future professional pilots.

Despite the cold weather and short notice, turnout was excellent. Club President Mike Polen read the club Constitution and discussed the club's purpose and goals, after which the Manager and Owner of Eagle Flight Center, sponsors of the Aerobatic Club, presented their proposal for obtaining a Super Decathlon aircraft for use by the club. By offering a ten hour aerobatic course at cost, the club hopes to raise enough money to show support for the course, after which an aircraft will be purchased and flight training will begin immediately.

The primary aerobatic course would consist of 4 hours of ground instruction and 10 hours of dual flight training. The course would begin with the basics and would proceed as far and as fast as the student can learn within the 10 hours of flight time. An additional advanced aerobatic course would be available to students who have completed the primary course.

Future club activities planned include trips to: Valiant Air Command Airshow in Titusville, March 10-12, EAA Sun-N-Fun Fly-In in Lakeland, April 09-15, IAC Aerobatic Competition in Sebring, April 20-22.

Anyone interested in joining the club, or requesting more information on club activities can contact John Freas at ERAU Box 2162. Please include your name, year, program, certificates/ratings held, phone and box numbers.

Flight Team

by Michelle M. Boullianne
PFDT Representative

The exciting days at the Daytona Race Track are finally over and all of the participating members reaped in a nice profit for the team. Thank you to all who helped out.

Last Saturday, some members assisted in Spruance Hall during ERAU's Open House by giving information and answering questions about the university to interested visitors. Last Thursday morning two of our members went to Highland Elementary School to give an informational lecture on aviation, aviation safety, careers, and Embry-Riddle. These lectures are given to spark a child's interest and imagination in aviation. One of the team's members went with a member of the 99's to Halifax Hospital Thursday morning to help lighten the spirits of injured and sick children.

The Flight Team will be participating in the Inter-Fraternity 24 Hour

Softball Tournament next month. The proceeds go to the Special Olympics for handicapped competitors. Some team members will be selling raffle tickets for the United Way project at The Reef during the second and third weekends in March. The ticket's profits go to the United Way's Volunteer Organization. The winner of the raffle receives prizes that include round trip tickets to New York City, a new wardrobe, concert tickets, and a tour of MTV studios.

Congratulations to our softball team whose record is now 3-0! Good luck in future games.

Last Wednesday, Mr. Wiggins held a competitors meeting. For all those who were unable to attend please get in touch with either Mr. Wiggins, Steven Haddad, or Brian Florence to get information that was covered. Please continue checking competition schedules and times because events are getting into full swing.

Christian Fellowship Club

by Asua Badoo
Club writer

A Bible Tribune, a sort of Bible contest was held at the Christian Fellowship Club meeting on Saturday Feb. 18. Troy Town hosted the contest which involved questions on the history, geography, prophesies, names, letters, numbers and sequence of the

Bible, including questions from the Old and New Testaments of the Bible.

Members of the Fellowship split into two groups, which were the Staff of God, and the Gentiles. Each group chose a speaker who picked a question from any of the categories desired (that is history, geography etc.). The contest was very competitive espe-

cially during the latter half of the class which is held every Thursday at 5 p.m. in the Common Purpose Room Staff of God won with 250 points (CPR).

The purpose of the Christian Fellowship is to share the love and excitement of knowing Jesus Christ with ERAU students and faculty. We are an interdenominational group that encourages to attend the Readership meets every Saturday evening at 6:30.

Members of the Fellowship were encouraged to attend the Readership meets every Saturday evening at 6:30.

Sigma Phi Delta

by Scott Donnelly
Club writer

First off, WE GOT THE LOAN! YEA!

Well Speedweek is over with only minor damage, but watch out for bike week. To all our Canadian friends: Good Break, eh! We welcome all our friends who will be visiting in the near future.

Be excellent to each other and party on dudes.

Windsurfing Club

by club writer

Hey all you boardheads, how about that wind? I hope you've all been out taking advantage of it. The temperature is a bit cool, but the winds are awesome.

Anyone want an Embry Riddle Windsurfing Club T-shirt? If so come to the U.C. today March 1st. We'll be selling T-shirts from 10 a.m.- 3:30 p.m. If you don't have yours, get it

now before it's too late!

Is your car covered in dust and pollen, do you hate getting into that dirty automobile? If you answered yes, then come on out and get your car washed. On Saturday March 11, we'll be washing cars along with the HOOTER'S GIRLS.

Looks like plans are in the making for another great weekend in the Keys. Anyone interested in going south on

Easter weekend should contact Joe Collins.

Let's have a hearty round of applause for our very own JOE COLLINS. He came in third in the 2nd annual Sigma Chi ski trip at Frostbite Regatta at Sandy Point. Among his competition were some professional windsurfers, but Joe blew them away.

The next meeting will be 7:30 p.m., March 8th at Mr. Gatti's.

see the difference in Lambda Chi Alpha. Pizza night at Giuseppe's tonight, free beer and other gifts when the gang all gets together for more laughs and good times.

A.M.'s, wear your badges proudly or don't expect to see brother badges. They aren't required on t-shirts so maybe you should wear something other than a t-shirt so you can wear the badge. Are you reading the Paedagogus? Quiz this Thursday. And finally, get to meet your High Zeta. A.M.'s show the brothers your spirit in Lambda Chi Alpha.

Sigma Chi

by James A. Ahrens
Chapter Historian

Welcome back to those brave brothers who ventured to the north for the 2nd annual Sigma Chi ski trip at Frostbite Regatta at Sandy Point. Snowshoe. From what some of the brothers are saying, it was quite the weekend! I could say more about it, but let's just say we skied a lot, met some cute snowbunnies, and filled up our bumpers all weekend.

Look out boys and girls because Mr. and Mrs. Biker are in town to drive us all crazy for the next week and a half.

Yes it's that time again, time to go down to the Boot Hill Saloon and hang out with the gang. Also, we will soon start selling raffle tickets for Easter Seals, who are giving away another Harley this year.

Of course if leather and tattoos are not your thing, then you might want to go beachside and check out the Canadians that are down for Spring Break. They started last week and the Americans are not far behind, along with MTV, Sam Kinison, Cheap Trick, and many others. This is also the time of the year that all the Sigs from up north come down and visit, so keep an eye out for them.

Lambda Chi Alpha

by Steve Paik
Club Writer

Sorry that last weeks issue did not have an article but I'm sure you'll like this one. OK, we made a lot of bucks at the races and once again a round of applause to Todd M. and all the brothers who put their weekends in labor.

Some of the brothers went up to Jacksonville last weekend and had a

great time while learning more about Lambda Chi Alpha and our other chapters. They all brought back some interesting and new ideas so lets use that information to our advantage. Talk to someone who want and share the knowledge. Future events coming up are CAMP OUT this weekend, bring a fried to

Lacrosse Club

by Jeff Strazzere
Club writer

The Embry-Riddle Lacrosse Team was put to an extremely demanding physical test against Ocala on Sunday February 26. Not only did the team meet the challenge but excelled to a 13-10 victory. High scorers include attackman Johnny Kirk and Don Tilden with

four goals each. Midfielder Jeff Strazzere had three goals. Chris Watson and Dietrick Headley each added one. Assists came from Kirk, Tilden and Kevin Laragy. Mike Syski and Brian McCarthy combined for 12 saves in goal.

Under the direction of Jim Blan-

chard, Frank Moxley and Jim Powell the team has a 4-4 record in the Florida State Lacrosse League. The team has a two game series against the University of Florida this weekend Saturday's game is at 1:00 and Sunday's game is at 11:00.

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Ariane launch successful

by Roland Houle
Space Technology Reporter

The French based Arianspace launched an Ariane 4 from the Guiana Space Center in Kourou, French Guiana last night.

On board the expendable launch vehicle was a JCSAT-1 and a MOP-1 satellite. The JCSAT-1 is a communications satellite built by Hughes Aircraft Corporation for the Japan Communications Satellite Company. Produced by Aerospatiale for the European Space Agency, the MOP-1 is an Earth imaging meteorological satellite.

Once fully operational, the MOP-1 will be part of the Meteosat Operational Program (MOP) and operated by the EUMETSAT.

EUMETSAT is an international organization established in 1986 by 16 European nations and their National Meteorological Services in order to operate meteorological satellites on a permanent basis.

The JCSAT-1 can provide up to 32 operational channels. Each channel is capable of transmitting one high-quality TV station or 250 full duplex telephone circuits.

Since its incorporation on March 26, 1980, the joint stock company, Arianspace, has become the world leader in expendable launch vehicles.

Contracted by European Space Agency,

Arianspace is responsible for the construction, launching and marketing of the Ariane series of launch vehicles.

The Ariane 4 vehicle has only been used on three launches, but it is considered to be very successful. In fact, Arianspace recently placed an order for 50 Ariane 4 launchers. This order is in addition to the 21 Ariane 4 vehicles already on order.

The primary reason for the success of the Ariane 4 is the rocket's capability of lifting two satellites at once.

Delivery dates will enable the first flight of a launcher of the new batch in late 1991. The 50th Ariane 4 of the \$3 billion contract is expected to be delivered in late 1999.

By building a bulk number of these expendable launch vehicles, Arianspace expects to save approximately 34 percent off the production costs of the first batch of Ariane 4 vehicles.

Before this launch, Arianspace had an overbook of 36 satellites (5 of which were made in the United States). This represents \$2.33 billion in revenue for the successful company.

Arianspace's next launch is scheduled to be an Ariane 2 lifting a Swedish Space Corporation telecommunications satellite, TELE-X, into geosynchronous orbit.



Arianspace photo

Spaceshot...

An Ariane 4 sits on its pad in Kourou, French Guiana. A vehicle such as this was used in Arianspace's 29th mission.

Discovery being readied for a hopeful launch

by Michael Fried
Space Technology Editor

The three new pumps for Discovery's engines have all been installed as preparations continue to ready the space shuttle for flight.

Kennedy Space Center workers have replaced the heat shields for the shuttle's main engines after they were removed for the pump installation. The original pumps were found to have small, potentially dangerous cracks.

Over the weekend a helium signature leak check of the main propulsion system was conducted. The test involved using helium to fill some of the main engine components. If there was a leak, the helium could then get out of the system and could be detected.

Once the test was over, the reaction control system and orbital maneuvering systems were both pressurized for flight. Fuel tanks on the launch tower will be loaded with liquid oxygen (LOX) and liquid hydrogen (LH2) for later transfer to the shuttle. The

two fuels will be used for the fuel cells onboard the shuttle. The cells are used for making electricity and water during orbital operations.

This week a flight readiness test will be conducted. This test will cycle the valves of the main engines. Additionally, the flight surfaces will be activated to ensure that they are ready for flight.

Once the test is complete, NASA will set a launch date. If Discovery is not launched by mid-March, it will be rolled back, because of the priority of Atlantis's Magella mission.

Last Saturday the flight software for the inertial upper stage (IUS) was to be loaded into its general purpose computers. However, humidity levels were below 30 percent which may have caused a static electric discharge with the solid rocket motor on the IUS.

On Monday, the inertial upper stage will be loaded with flight batteries followed by charging of the Tracking and Data Relay satellite's batteries.

NASA reviews liquid booster system

by Alan McAdams
Space Technology Reporter

After a Solid Rocket Booster (SRB) failure led to the destruction of the Space Shuttle Challenger, NASA was forced to re-evaluate its original orbiter system plans to see if safety and reliability could be improved.

At the beginning of the shuttle booster program, liquid and solid fuel systems were considered. The liquid booster was ruled out because it could not be made feasibly recoverable. Upon reexamination, NASA and its contractors found that with the use of a liquid system, 36 percent more payload could be lofted to low Earth orbit and approximately 50 percent more to a space station orbit.

"The biggest advantage of a liquid booster is safety," stated Ned Hughes, NASA program manager. General Dynamics has found that a liquid system would be much safer in circumstances where one or more of the space shuttle main engines (SSME's), or booster engines fail during launch.

When using liquid boosters, thrust must be allowed to build and stabilize several seconds before ascent begins.

During this interval on the pad, engine performance could be monitored and corrected in real time. If discrepancies were too great, the whole system could be shut down on the pad, unlike the solid rocket boosters (SRB's) currently used. Once the SRB's are ignited, they must burn to completion.

If a failure were to occur during flight, a liquid system could be adjusted to compensate or even shut down and prematurely separate from the external tank to facilitate a crew bailout.

The current SRB's, which must be allowed to burn to completion, use up valuable crew egress time.

Hughes stated that with the use of such a liquid booster, payload lift performance could be greatly improved by an estimated 20,000lbs to a 110 nautical mile low Earth orbit and almost 27,500lbs to a 220 nautical mile

to a space station orbit.

NASA has already awarded contracts to Martin Marietta and General Dynamics to carry out independent feasibility studies on the proposed liquid booster system.

According to Aerospace America, the shuttle would have two liquid boosters in place of the two solid ones. Each of these boosters would be powered by four engines burning liquid oxygen (LOX) and RP-1 (kerosene).

A primary aim is to make the engines as simple but reliable as possible. This is in contrast to the high pressure, high-speed turbine machinery used in the SSME's, which have proved to be very difficult to maintain.

All of the liquid booster candidates would be slightly larger than the current SRB's. NASA wants to stay as close as possible to the dimensions of the SRB so that a minimum number of alterations would be needed on the existing launch and processing

facilities at Kennedy Space Center (KSC).

A drawback to a liquid booster system is that it would most likely be an expendable system as opposed to the current reusable SRB's.

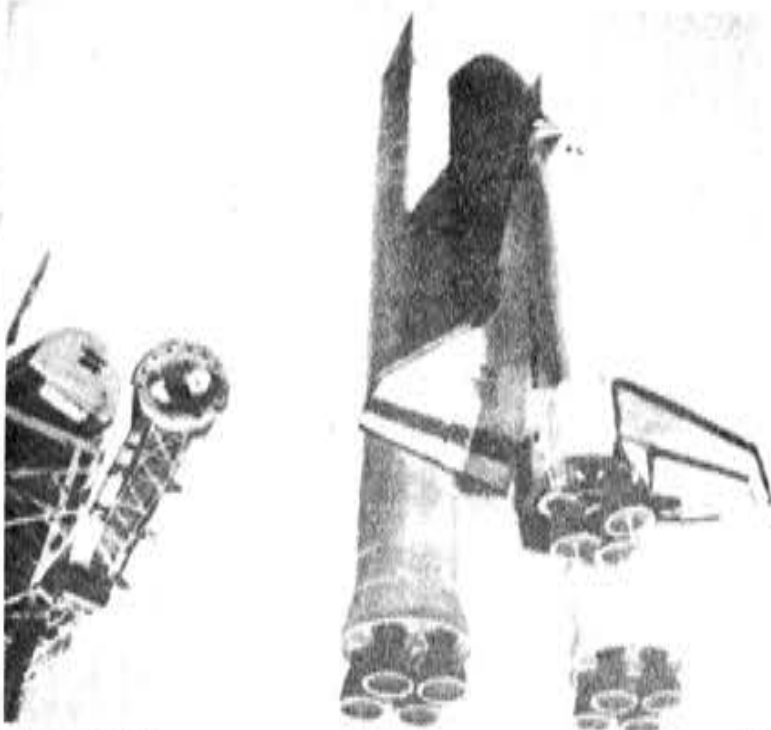
This would cost more in the short run, but eventually the boosters would make up for it in safety and payload capabilities.

The use of a liquid booster system would greatly increase safety in the Vehicle Assembly Building at KSC and could reduce the refurbishing cycle schedule by as much as 20 days.

In addition to use in the orbiter configuration, these boosters could provide other services. They may be utilized in both the Shuttle-C and Advanced Launch System programs.

If this is the case, the estimated \$2 billion dollars needed to develop the system could be spread over the three programs, cutting costs all around.

According to Hughes, a liquid booster system could be in service by the mid 1990s.



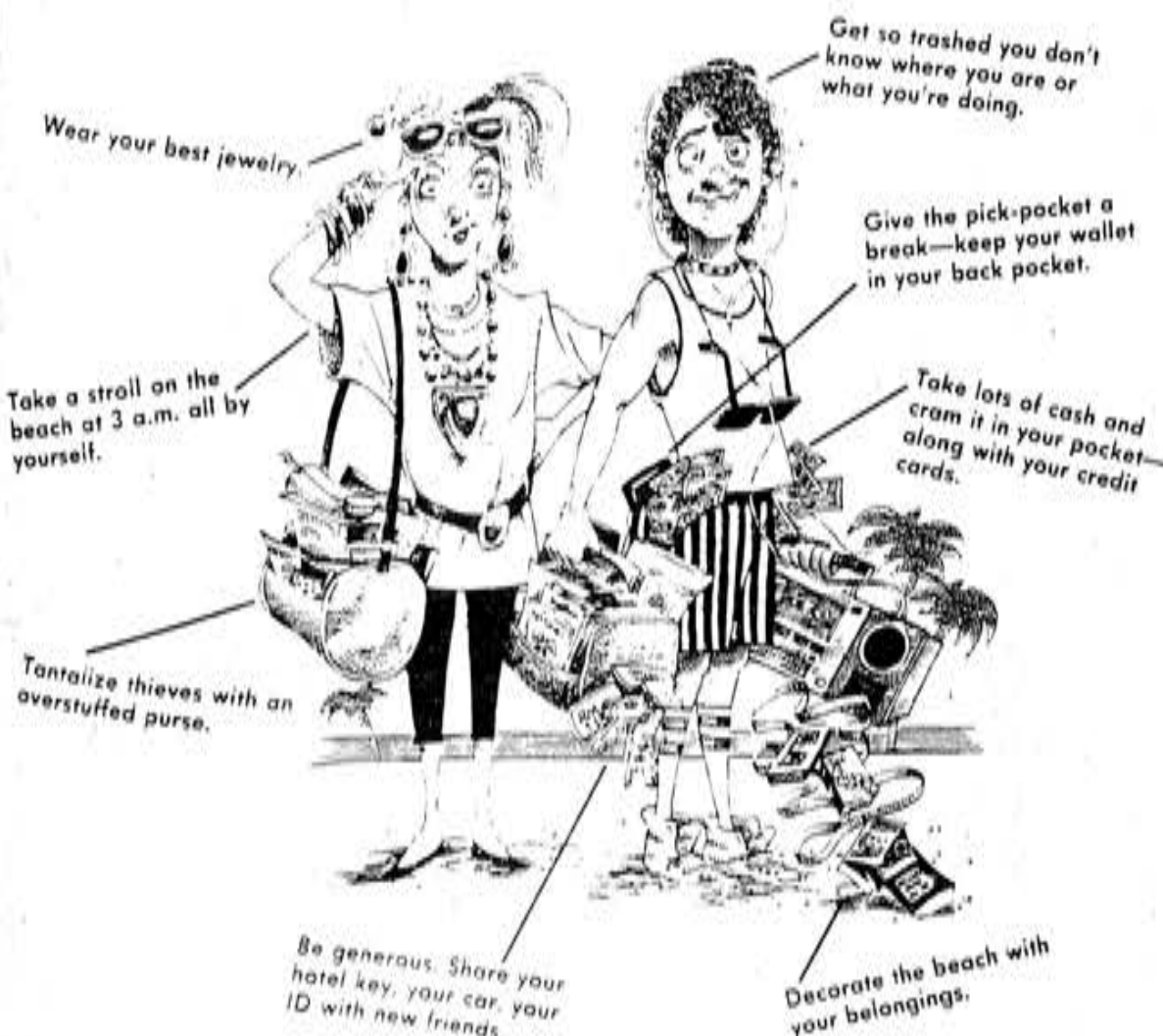
NASA photo

Going up...

Shown here is an artist's interpretation of the space shuttle fitted with a pair of liquid rocket boosters. The new type of booster would give more lifting capabilities to the shuttle and would be much safer.

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LETTERS

(Continued from page 2)
hodgepodge of metric and English units.

Our goal is to produce graduates who can work reliably under the conditions encountered in industry. You may recall a few years ago when an Air Canada 767 ran bone dry at cruising altitude as a result of a unit conversion when it was refueled.

Fortunately an experienced pilot was able to avert disaster. This and other examples underscore the practical importance of such a basic skill as working with unit conversions.

There are many other points that I would like to discuss concerning the educational goals that I set for

the physics lab and an experimenters philosophy on the pursuit of knowledge. This is a rather lengthy subject which I welcome the author of the critical letter or anyone else to discuss with me in my office (W514)

Thank you

Charles Bishop
Asst. Prof of Physics

To the Editor:

Last weeks *Avion*, printed a letter concerning the questionable nature of the Physics 104 lab problems. Upon reading the letter, I became

somewhat short of irreversibly irate.

The person writing the article attempted to explain that the problems assigned in the lab as homework were "not suiting the purpose for which they were intended." These problems were also "proven totally inadequate."

I would like to disguise two ideas. First, a problem can not be "inadequate." A proposed solution may be inadequate but the problems certainly can not be classified as such. Second if this person spent less time "proving these problems as inadequate" he might have more time to understand the physical idea behind

the problem.

One must realize that a physics course deals with analyzing natural physical phenomenon. It inherently attempts to strengthen ones analytical skills. Unfortunately, the only way to learn these skills is to solve many "uncommon looking" problems. If one is not interested in being taught these analytical skills, he should not even consider a B.S. degree.

It was also mentioned that "unit conversion" is an inconvenience not to learn anything." What does this mean? If you think any type of education is inconvenient then might I suggest you reevaluate your purpose in coming to ERAU.

OTHER

(Continued from page 6)

walking on campus just give security a call and they will take you where you want to go, possibly saving your property, and you, from unnecessary damage.

In addition security has some programs in the works for the future. One such program is the 'lease a lock' system. Students can lease a Kryptonite lock for their bicycle, from security at a nominal fee. This is a one time lease and is good for as long as the student wants to use the lock on campus. The student and security both have a copy of the key just in case the student loses his set of keys.

All in all Embry-Riddle Security provides many services which are available to protect the students from harm. For more information, or to report a crime, visit the security building or call, extension 6480.

William Hawkins
Box 3572

JET

(Continued from page 4)
graduate from Embry-Riddle in April of 1989. Brooks and Coburn graduated in December of 1988, Brooks with a degree in Professional Aeronautics and Coburn with a degree in Aeronautical Engineering. Brooks is currently working at the Pentagon with the Seventh Communications Group in Washington, D.C.

At the end of this summer, the seven young men will spend 54

weeks in pilot training in Wichita Falls, then move on to six weeks of survival training, another six weeks of lead-in fighter training, and a final six months of transition training. After all of the training, the men will be assigned to their fighters, Glidden hoping to pilot the F-16 and Black, Bonine, Brooks, Coburn, O'Grady, and Speckhard all hoping to pilot the F-15.

SAFETY

(continued from page 7)

help reduce stress. It will put some order to the chaos that life can sometimes be, so that it doesn't turn into one massive pile that seems impossible to deal with. Also, try to evaluate how much is going to overload you. Don't try to be a hero and fill in the holes that others have left. It is usually not worth the trouble.

In this article I have not mentioned flying much, the reason for that is that the safety of a flight starts on the ground. If you can't handle your problems down here you most definitely can't handle a problem in flight and most likely you will cause one. Remember, safety is pilot awareness. In this case be aware of the pilot!

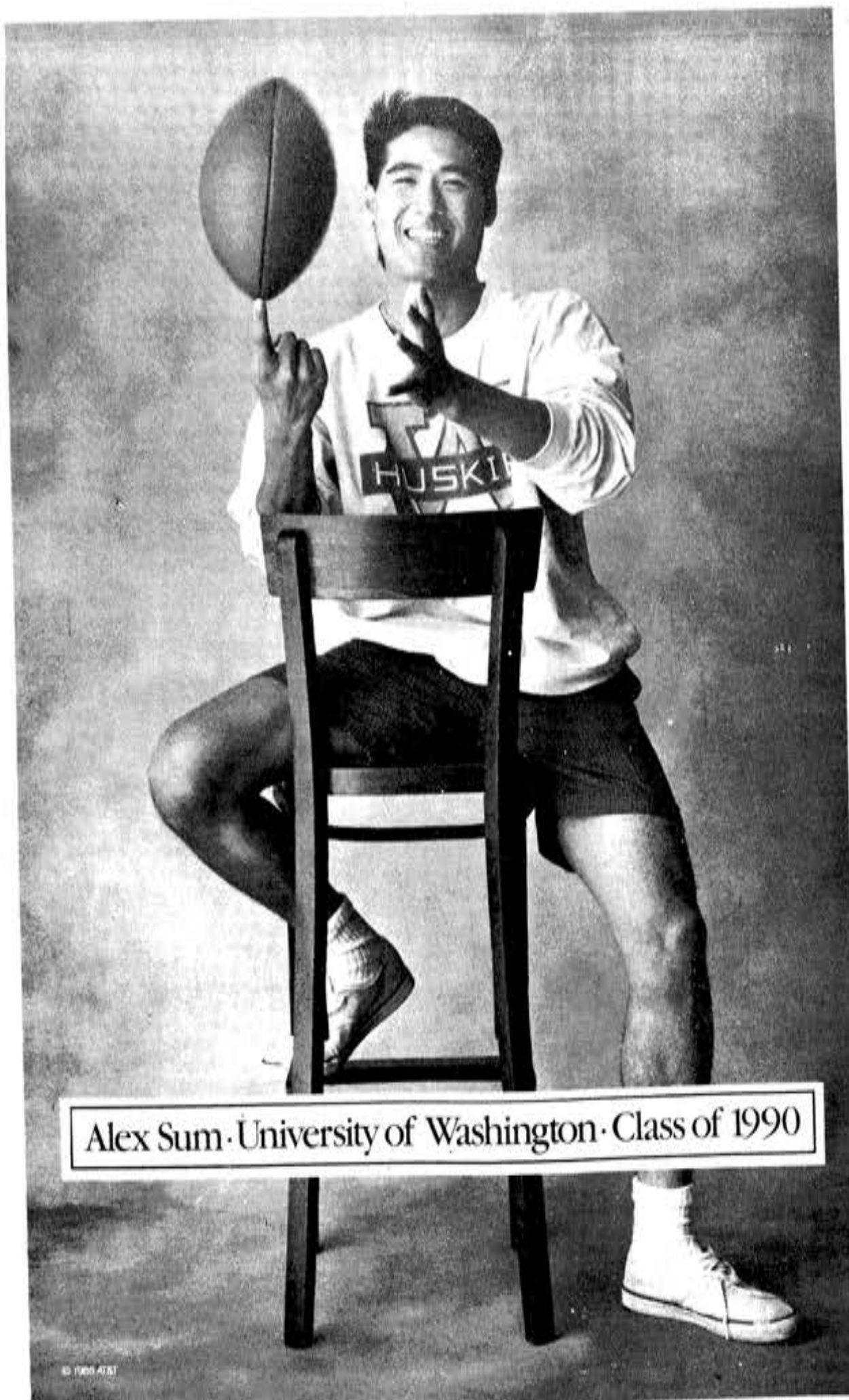
DELTA

(continued from page 4)

ing. It may be an easy day or it may be a rough day, but it won't be the same as the day before.

If you think you might enjoy a dynamic, challenging profession that keeps you actively involved with the leading edge of today's technology, perhaps the road to Avionics is a good place to turn.

“I wasn't rubbing it in—I just wanted Eddie to know the score of last night's game.”



Alex Sum · University of Washington · Class of 1990

Go ahead and gloat. You can rub it in all the way to Chicago with AT&T Long Distance Service. Besides, your best friend Eddie was the one who said your team could never win three straight.

So give him a call. It costs a lot less than you think to let him know who's headed for the Playoffs. Reach out and touch someone.®

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Sports Shorts

LONDON The scheduling of the 1990 Davis Cup has led to the first significant clash between the International Tennis Federation and the Association of Tennis Professionals, which is seeking to take over control of the men's tour.

The ATP announced in January it was setting aside time for the first round of 1990 world-group Davis Cup matches during the week starting Jan. 29, the week immediately after the Australian Open.

But the ITF said in a statement released Friday that the 1990 Davis Cup competition will begin the week of Feb. 5 "in order to allow sufficient time for the players to travel and adjust for important Davis Cup play."

The ITF has set the men's tour calendar until now, but the ATP has set up a rival calendar beginning next year. The ITF remains the governing body responsible for overseeing the Davis Cup.

ORLANDO The pack of cigarettes in his locker has been replaced by a Bible.

Where once there would have been a beer, there is now a cup of coffee. And, just the other day, Gary Gaetti asked a reporter to take the word "damn" out of a quote.

Once a hard-living party-lover, Gaetti late last season "turned myself over to God" and became a born-again Christian.

Some teammates have expressed concern that his newfound beliefs would take away the competitive edge that has made him a fiery team leader. Gaetti, however, scoffs at such talk.

"How could it possibly affect my play negatively? I don't understand how anyone could think that," he says. "Everybody's just speculating."

Orel Hershisser, the Los Angeles Dodgers' pitching ace who took the baseball world by storm last fall, is also a born-again Christian.

While Hershisser was almost single-handedly willing the Dodgers to a World Series victory, nobody called him timid. In fact, people called him "Bulldog."

WOKING, England While other Grand Prix teams struggle to boost horsepower or build a more aerodynamic car, McLaren faces a different hurdle in its quest to repeat as Formula 1 champion.

Complacency. No team ever dominated a Grand Prix season as McLaren did in 1988. The red-and-white racers won 15 of the 16 Grand Prix events, and finished 1-2 in 10 of them.

Ayrton Senna, a newcomer to the team, won his first world driving championship with eight victories, and teammate Alain Prost added seven, bringing his record career total of triumphs to 35.

McLarens have won the manufacturers' championship three times in the last five years, and its drivers have taken four of the last five world titles. Prost and Senna are back, along with the superior Honda engine and a sleek chassis.

That's why the biggest problem the British team faces may be an emotional let-down.

"When you win 15 out of 16 there is only a little chance of doing better," Prost said. "It is hard to be motivated."

CHICAGO The status of the Arena Football league is in limbo, after the founder of the game said he hasn't been paid royalties he is owed, but some Arena officials dispute that claim.

Jim Foster, the league's founder, issued a statement Friday to the limited partners involved in running Arena teams, saying that he was terminating their rights, license and use of the game system.

However, Mike Hope, attorney for The Individual Limited Partners of Arena Football Limited Partnership, said the royalties Foster claims he has not received are not due until March 31.

Source: Associated Press

Eagles Baseball Team lose to Brevard Community College

by Phyllis A. Salmons
Copy Editor

The Eagles Varsity Baseball Team's season record stands at 3-2 after last Saturday's loss to Brevard Community College. Brevard beat the Embry-Riddle team by a score of 7-1 in an away game.

Eagle Greg Phillips pitched for six innings and according to Head Coach John Filor, "Greg pitched well enough to win the game", but seven errors by his young teammates gave the team their second loss of the season.

"We still did an excellent job holding them," said the coach, "they are one of the better teams in Florida." It is not uncommon for Brevard to score in excess of 20 runs in a game. Brevard is also one of the teams with lots of players who will soon go to four year universities on scholarships.

The Eagles only run was scored on a homerun over left center field in the second inning by Greg Trautmann, putting the Eagles ahead 1-0. In the bottom of the second, Brevard scored an unearned run to tie the game. In the remainder of the game, Brevard scored only two earned runs, taking advantage of the Eagle errors.

The Eagles have two home games coming up this week. Riddle students may attend the City Island Stadium home games at no charge.

Tonight we will have a rematch with Brevard Community College at the City Island Stadium at 7 p.m. "We really need a good crowd to cheer us on!" said Coach Filor. "Brevard is a dynamite team, but as we have already shown, we can give them some competition."

Tomorrow night at 7 p.m., the Eagles face Flagler College at City Island. Flagler College recently lost a game to Stetson University, 2-1.

The five games scheduled between March 7 and March 13 will be at Sterling Complex in Deland. "It is only a 14 minute drive from campus to the Sterling Complex," said Filor. The Deland games will include Juanita College (March 7), Wabash College (March 9), Widener College (March 10), Ohio Valley College (March 11), and St John's College (March 13). All the Deland games will begin at 7 p.m.

The directions to Sterling Complex are as follows: take U.S. 92 west toward Deland for 11.8 miles after passing under the I-95 interchange. Turn right on Old Daytona Road and proceed 1.5 miles. Turn right on Marsh Road to Sterling Complex, a distance of about .7 mile.

Coach Filor predicts, "We are going to have a tremendous future. We are in the hardest part of our season right now, and we have been doing a great job. You can expect the Eagles to bring home many more vic-

Motorcycle Week Race Schedule 1989

Friday - March 3
8 a.m. to 5 p.m.: AMA/CCS Roadrace Practice - Daytona International Speedway
7 p.m.: American Motorcycle Institute Half Mile Dirt Classic - Volusia County Speedway
Saturday - March 4
8 a.m.: AMA/CCS Roadrace Practice
12 noon: AMA/CCS Sprint Races - 10 classes - 25 mile races - Daytona International Speedway
7 p.m.: Joe Robison Harley-Davidson Half Mile Dirt Track - Volusia County Speedway
Sunday - March 5
8 a.m.: AMA/CCS Roadrace Practice - Daytona International Speedway
10:30 a.m.: AMA/CCS Sprint Races - Daytona International Speedway
12 noon: Bush Half Mile Dirt Track - Volusia County Speedway
2 p.m.: Three hour EBC Endurance Race - Daytona International Speedway
Monday - March 6
8 a.m.: Amateur, Youth, Pro-Am, Quads Practice/Race - Volusia County Speedway
8:30 a.m.: Amateur Motocross Practice - Vintage Road Racing Practice - Daytona International Speedway
1 p.m.: Amateur Motocross and Vintage Races begin - Daytona International Speedway
Tuesday - March 7
8 a.m.: Pro and Supersport Roadrace Practice - Daytona International Speedway
8:30 a.m.: Practice/Race - Amateur, Youth, Pro-Am, Quads Dirt Track - Volusia County Speedway

3 on 3 softball tournament to be held on the beach

Ayer Press Release

Gillette Right Guard Sport Stick has announced the development of the Sport Stick 3 on 3 Softball Challenge, a three person softball competition that will take place during the traditional college spring break period in March. The competition, which is set for Daytona Beach, (March 6-31), will take place under the direction of Spring Games Inc. and the National Intramural-Recreational Sports Association (NIRSA).

The Sport Stick 3 on 3 Softball Challenge is open to college students nationally through on-campus

registration at their college recreational sports office or on-site registration in Daytona Beach. The dates and times of the competition will be determined on-site. Right Guard Sport Stick will fly the winning teams from Daytona Beach to Palm Springs for the Sport Stick 3 on 3 Softball Challenge finals on April 1 and 2.

"Right Guard Sport Stick is excited to be a major sponsor of Spring Games USA" said Mike Griffin, Senior Product Manager for Gillette's Right Guard Brand. "It's an outstanding program for college students and it gives us the opportunity to bring the

Sport Stick 3 on 3 Softball Challenge to thousands of Spring Breakers."

Spring Games USA is an olympic-style athletic competition that brings active college students from across the United States to compete in a series of individual and team championships during spring break. Led by newly appointed Commissioner O.J. Simpson, Spring Games USA will team with NIRSA to provide college students with a healthy sports oriented alternative to the traditional spring break excesses. No alcohol or tobacco sponsors are accepted by Spring Games USA.

In Daytona Beach the Sport Stick 3 on 3 Softball Challenge will be played each weekday on the beach in front of the new Marriott Hotel. The dates and times of the competition will be determined on-site. Right Guard Sport Stick will fly the winning teams from Daytona Beach to Palm Springs for the Sport Stick 3 on 3 Softball Challenge finals on April 1 and 2.

The Sport Stick 3 on 3 Softball Challenge was created specifically for college students who are interested in action-sports. The high scoring game is fast moving and focuses on hitting and fielding.



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and over
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You must be
21 to drink

Razzle's

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and over
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You must be
21 to drink



Razzle's

MONDAY - BIKINI CONTEST - \$200 CASH from Caribe Suncare Products. FREE DRINKS & Razzle Mugs from 7-9 p.m. 2 for 1 DRINKS From 9-Closing

TUESDAY - MINI SKIRT CONTEST - \$200.00 CASH PRIZE. FREE DRINKS & FREE RAZZLE MUGS from 7-9 p.m. 2 for 1 DRINKS From 9-Closing

WEDNESDAY - WET-TSHIRT CONTEST - \$200.00 CASH PRIZE from Caribe Suncare Products. FREE DRINKS & Razzle Mugs from 7-9 p.m. 2 for 1 Drinks from 9 - Closing

THURSDAY - LEGS CONTEST - \$200.00 CASH PRIZE from Caribe Suncare Products. FREE DRINKS & Razzle Mugs from 7-9 p.m. 2 for 1 Drinks from 9 - Closing

FRIDAY - GOODBYE PARTY - 2 for 1 Drinks All Night Long. Get There Early!!!

SATURDAY - WELCOME PARTY - The Party Starts Early!! BIG WEEKEND BASH 2 for 1 Drinks All Night Long

SUNDAY - JACQUES MORET - Best "Female" Body Suit Contest \$175.00 CASH PRIZE, \$1200.00 in Body Suits to be Giving Away. FREE DRINKS & Razzle Mugs from 7-9 p.m. 2 for 1 Drinks from 9-Closing

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WWF Wrestling
Sam Kinison 3/16
3/17



Julio Iglesias 3/17
Cinderella 4/9
R.E.M. 4/30

At Orlando's Bob Carr Auditorium:
Edie Brickell and The New Bohemians 3/22

* Call Ticketmaster to confirm 353-3309

Movies

AMC Volusia Square 8 Theaters

- 1. The Fly II 1:45, 5:00, 7:30, 9:45
- 2. Three Fugitives 2:00, 5:30, 8:00, 10:15
- 3. Torch Song Trilogy 2:00, 5:30, 8:00, 10:15
- 4. Mississippi Burning 1:30, 4:45, 7:30, 10:15
- 5. The Burbs 1:30, 5:00, 7:30, 9:45
- 6. Cousins 1:30, 5:15, 7:45, 9:55
- 7. Her Alibi 1:45, 5:15, 7:45, 9:55
- 8. True Believer 1:45, 5:15, 7:45, 9:55

Call 258-1146 to confirm times

AMC Daytona 6

- 1. Tequila Sunrise 1:30, 5:00, 7:30, 9:55
- 2. Dirty Rotten Scoundrels 2:00, 5:30, 8:00, 10:30
- 3. My Stepmother Is an Alien 1:45, 5:15, 7:45, 10:15
- 4. Child's Play 2:00, 5:30, 8:00, 10:30
- 5. Deepstar 6 1:30, 5:00, 7:30, 9:55
- 6. Hellbound 1:45, 5:15, 7:45, 10:15

All Seats \$1.00-Call 255-4503 to confirm times

United Artists Mall 1-3

- 1. Tap 2:40, 5:00, 7:20, 9:30
- 2. Rain Man 2:10, 4:40, 7:10, 9:40
- 3. Naked Gun 2:20, 4:00, 5:50, 7:40, 9:35

Call 252-0467 to confirm times

United Artists 4-9

- 4. Crime Zone 4:30, 5:50, 7:50, 9:50
- 5. Working Girl 2:20, 5:10, 7:25, 9:45
- 6. Dangerous Liaisons 2:35, 5:00, 7:15, 9:35
- 7. Bill and Ted's Excellent Adv. 1:50, 3:45, 5:40, 7:35, 9:30
- 8. Twins 1:50, 3:50, 5:45, 7:40, 9:40
- 9. Things Change 3:55, 5:50, 7:50, 9:50

Call 252-0593 to confirm times

Hanks missed with 'The Burbs'

by Joe Cambron
Diversions Editor

"The Burbs" is an interesting romp along the lines of the ever popular "Lost Boys", with a little



"Beetlejuice" thrown in for good measure. The movie stars Tom Hanks as a nosy neighbor attempting to enjoy a week's vacation without leaving his home. His success at this project is hampered by a number of things, however. First, strange noises emitted from the run-down house next door ignite his curiosity to the point that he is willing to believe the rantings of his other schizophrenic neighbors, one of which is a military arms dealer. Second, his wife, played by Carrie Fisher, is eagerly encourag-

ing Hanks to leave the neighborhood for the duration of his vacation, while instead retiring to a cabin in the country. Hanks does not heed his wife's advice, though, and soon becomes caught up in the strange happenings next door.

As his neighbors discuss murders and burial rituals, Hanks tries to hold onto some shred of his senses above the whirl of the suburban rumor mill.

Even though Hanks is easily the most level headed of the group, he finally gives in to what could be the realities of circumstantial evidence, and it is he who takes the "fatal" step of finding the real truth behind the odd-ball family.

As the title implies, this movie is a story of local suburbia, and although the setting is Illinois, it is clear that the movie is intended to appeal to all the nosy neighbors who ever peeked over the fence. The real setting, however, is not a new one. A new family moves in next door, does not really talk to anyone, and immediately rumors and apprehension begin to creep into the local consciousness. It seems much like an episode of the "Twilight Zone", in fact.

The family is truly eccentric, however, it is an exaggeration the writers have taken to an extreme to prove a point. Any family including alumnus of "Laugh In" (The

Doctor), "Lost Boys" (The Doctor's son), and "Latenight with David Letterman" (The Doctor's Brother) certainly makes an interesting combination, one that in this case strangely resembled the "Adams Family" on a murder spree.

To quote one reviewer, "There's certainly nothing funny about this movie." I like to hope that is the

films. Comedy ("Big"), Drama ("Punchline"), and now Campy-Horror have been added to his repertoire.

Upon leaving the theater, I was left with a rather blaise feeling that was only hastened by a rather surprising ending. Perhaps it was the wanton destruction more akin to "Poltergeist" than anything else,

Superb
See it twice!

Really Good
Worth the money

An Average Flick
Catch a bargain matinee

Sub-standard
Wait until it comes out on video

Incredibly Poor
A total waste of perfectly good film

way it was intended, for if that is not the case then it is a terrible failure. If you are expecting another "Big" out of Tom Hanks, this is not the right place to look for it. Never funny, often bumbling, and finally enraged, Tom Hanks has covered many bases with his last three

but I was not really satisfied. It seemed that a very interesting cast had been more or less wasted. Gale Gordon of "Lucille Ball Show" fame, Brother Theodore from "Latenight", Carrie Fisher, and see BURBS, page 17

The Puzzle

ACROSS

- 1 Trade
- 5 Piece of cut timber
- 8 Stalk
- 12 Young salmon
- 13 Macaw
- 14 Danish island
- 15 Exchange
- 16 Southeast Asian holiday
- 17 Male deer
- 18 Spiritualist's meeting
- 20 Funeral car
- 22 Symbol for tellurium
- 23 Scorch
- 24 A state
- 27 Has reference to
- 31 Assist
- 32 Rescues
- 33 Speck
- 34 Seesawed
- 36 Conservative
- 37 Country of Asia
- 38 River in Italy
- 39 Prohibited
- 42 Annoy
- 46 Region
- 47 Anger
- 49 Transaction
- 50 Alight
- 51 Offspring
- 52 Gaelic
- 53 Heraldry; grafted
- 54 Finish
- 55 Sow

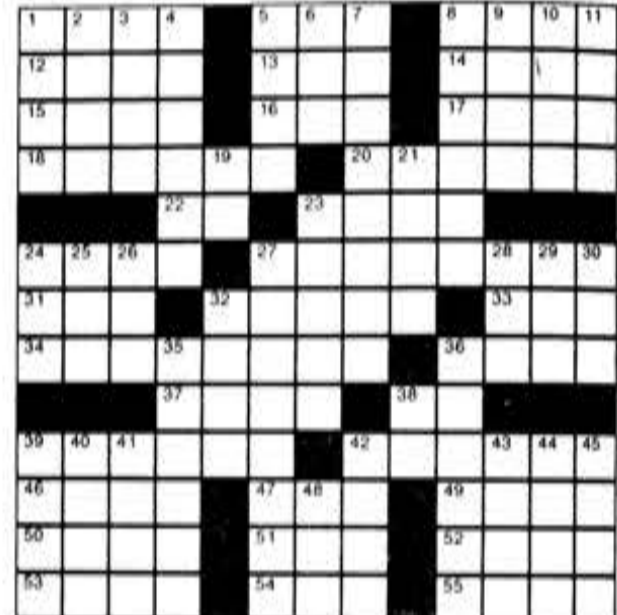
DOWN

- 1 Watering places
- 2 Carry on

- 3 Solo
- 4 Quickly; colloq.
- 5 Tardy
- 6 Native metal
- 7 Amassed
- 8 African desert
- 9 Rip
- 10 Sins
- 11 Speck
- 19 Symbol for cerium
- 21 Dines
- 23 Lucky number
- 24 Grain
- 25 Hasten
- 26 Freshwater fish
- 27 Garden of Eden
- 28 Artificial language
- 29 And not
- 30 Phippen
- 32 Withered
- 35 Angry outburst
- 36 Hurls

- 38 Hebrew letter
- 39 Bundle
- 40 Island off Ireland
- 41 Lease
- 42 Await settlement
- 43 Biblical weed
- 44 Otherwise
- 45 Musical instrument
- 46 White House nickname

see SOLUTION, page 17



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Disney-MGM studios set to open May 1

LAKE BUENA VISTA, Fla. -- Lights, cameras and all the action of Hollywood filmmaking will be "on stage" for visitors from around the world beginning May 1 when Walt Disney World opens its new Disney-MGM Studios Theme Park. Ranking with the Magic Kingdom and Epcot Center as a major tourist attraction, the new park is also a full-size working studio where

the combination of sound, laser lights and fireworks in IllumiNations, presented by G.E. Lighting. Also set for summer opening is Typhoon Lagoon, the new Disney water adventure park filled with flumes, slides, surfing, on man-made waves and snorkeling in a salt-water lagoon filled with tropical sea life. The 50 acre park

and other production as it is taking place. Motion-picture and television production at the Disney-MGM Studios began in June 1988. The 135-acre gated attraction, located south of Epcot Center, opens to the public May 1, 1989 -- hours after an April 30 NBC prime-time special gives America an early look at Walt Disney World's newest addition. Everyone who visits the new theme park will be immersed in the best of Hollywood's magic, residential and urban backlot street locations and into Catastrophe Canyon, a special-effects adventure with realistic simulations of rainstorms, flash floods, earthquakes and fiery explosions.

Club," a new Disney Channel series, begins production on the soundstages in early 1989. In the post-production area, guests see and hear the final phases of production from film editing to audio dubbing. Disney's animation department plays a starring role in the Backstage Studio Tour. For the first time, the public can see Disney artists at work on the many exacting aspects of the world-renowned Disney animation. Guests watch artists create classic Disney characters, develop illustrated storyboards to plan a film's story and dialogue and produce the mountain of paintings and drawings needed for animation. A small gallery and theater help to explain the intricate process.



Mickey and Minnie pose, ready for the star studded grand opening of the Disney-MGM studio on May 1. The opening will be included in a prime time special on NBC.

visitors will have a chance to see the stars in action, tour backlots and sound stages and enjoy one-of-a-kind Disney shows and adventures based on the glamor of Hollywood.

is located between Epcot Center and the Walt Disney World Village, the site of a third exciting summer opening -- Pleasure Island.

The Disney-MGM Studios combines a motion picture/TV production facility with a theme park in a 135-acre complex located a mile southwest of Epcot Center (as Dumbo flies).

The new Island includes six nightclubs plus restaurants and unique shops built to resemble a restored waterfront area with everything from disco and roller skating to comedy and adventure clubs adjacent to the Disney Village Marketplace.

The Studios' premiere signals a 1989 vacation season filled with grand openings throughout the 29,000-acre Walt Disney World Resort complex, including Typhoon Lagoon, Pleasure Island and Wonders of Life. Coming in June is a new ride-through adventure in the Magic Kingdom where guests travel through the barnstorming history of aviation in Dreamflight presented by Delta, the official airline of Walt Disney World.

Later in the year, Wonders of Life, presented by Metropolitan Life Insurance Co., will provide a major new complex of unusual attractions in Epcot Center's Future World including an exciting high-speed ride using flight simulators and extraordinary motion picture re-creations to explore the wonders found within the human body.

Epcot Center visitors ride Viking boats through the "Maelstrom" exploring the new Norway, Gateway to Scandinavia, fifth nation in World Showcase, and thrill to

the excitement of moviemaking combine at the Disney-MGM Studios Theme Park, the world in which visitors truly go behind the scenes to see soundstage shooting

The guided walking tour begins in a special-effects area in which fascinating demonstrations explain the mechanical and optical tricks that turn the seemingly impossible into on-screen "reality."

Next stop is the soundstages, where specially designed and soundproofed observation corridors give guests an unobstructed -- and unobtrusive -- bird's-eye view of ongoing production. Television's "Win, Lose or Draw," Siskel & Ebert" and a Carol Burnett special for The Disney Channel have shot on the three soundstages, and the syndicated "Superboy" TV series has done interior shooting on Soundstage 1 and done post production at the Studio post facility. "The Mickey Mouse

From the creative forces of Disney and George Lucas will come "Star Tours," a flight simulator-based attraction opening at the theme park in 1990. The classic characters of the "Star Wars" mythology will come to life in this ultimate thrill adventure, which made its debut at Disneyland in 1987.

For college students interested in spending Spring Break in Walt Disney World, those who present a valid college I.D. card save nearly half the price of admission to the Magic Kingdom and Epcot Center attractions, where they can

see DISNEY, page 17



This swimmer makes his way across the cool water of River Country at Walt Disney World's Fort Wilderness Resort. River Country reopened for this season on Feb. 11.

SPEAK UP ERAU

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Faculty Profile: Dr. Robert Hamwey, Assistant Professor of Physics

by Phyllis A. Salmons
Copy Editor

"In my spare time, I enjoy solving non-linear partial differential equations," joked Dr. Robert Hamwey, Assistant Professor of Physics. "At least that's what most people think Physics professors do. Are they going to know I'm kidding?"

Hamwey is one of the newest members of the faculty, having arrived in Daytona Beach last fall.

Hamwey teaches Technical Physics I (PS 103) and Modern Physics (PS 303) and is doing research with Dr. G. Sivjee in Embry-Riddle's Aerospace Research Laboratory on campus. Sivjee was Hamwey's thesis advisor for his masters study in upper atmospheric physics.

"Dr. Sivjee has pioneered the Aerospace Research Laboratory here at Embry-Riddle. Our list of projects is growing by the day." Hamwey explained that students in the Engineering Physics curriculum at Embry-Riddle are aiding with research involving remote sensing observations of the atmosphere. The students are learning skills which will be an asset when they graduate and continue doing research in physics.

"Dr. Sivjee is one of the world's greatest authorities in atmospheric physics and I am pleased to have the opportunity to work with him. The Engineering Physics students are enthusiastic and very motivated. It's a great degree program for any student with a strong interest in physics, the atmosphere, and space."

Hamwey, originally from Boston, Mass., recently completed his Doctor of Philosophy in Physics from Dartmouth College in Hanover, New Hampshire where he studied galaxies and the structure of the universe. He spent a great deal of time at Kitt Peak Observatory where he ex-

amined hundreds of galaxies, obtaining their red shifts in order to understand how the universe is expanding.

"One of the findings of astronomical research is that galaxies are not uniformly distributed throughout the universe. Galaxies tend to be clustered in some regions with none whatsoever in other regions." Hamwey's doctoral thesis at Dartmouth, *A dynamical study of four Abell clusters of galaxies*, was one of the outcomes of his study.

"I was always fascinated by looking at the sky," said Hamwey. Based on considerable research, he explained that astronomers have found that "...about 90 percent of the mass in the universe is not visible, leading to the concept of *dark matter*, which is unobservable, leaving very little matter in the form of normal things, like stars, dust and gas."

The University of Alaska in Fairbanks is where Hamwey pursued his masters degree. There he studied the chemistry and physics of the upper atmosphere. When asked, "Why Alaska?", Hamwey explained, "The polar regions are the best locations for studying the upper atmosphere. Not only is it good for studying the aurora (northern lights), but there is a great deal of interest in the ozone

depletion over polar regions." Also, being an outdoorsman, Hamwey found Alaska to be "a wonderful outdoor experience."

Hamwey is on the University's Computer Usage Committee and on the MA/PS department's Tutoring Committee. He is a member of the American Physical Society, the American Astronomical Society, and the American Geophysical Union. His numerous publications include *Large-amplitude semidiurnal temperature variations in the polar mesopause: evidence of a pseudotide*, and *A redshift survey of Zwicky field galaxies in the CFA strip*.

Hamwey recently made a presentation to the American Astronomical Society entitled *A redshift survey to B=15.7 in a 100-square-degree slice* and earlier this year he presented a seminar at ERAU entitled *Light from the Atmosphere*.

One of the things Hamwey likes about studying the upper atmosphere and astronomy, is that the subject matter allows for a great deal of travel. Not only has he studied in Fairbanks, Alaska, but also at observatories in Svalbard, Norway and Kitt Peak, Arizona. His tales of 21 hours of daylight in the Alaskan summer and about three hours

daylight in winter (with an average temperature of 40 below zero) makes interesting listening.

Watching Star Trek is one of Hamwey's favorite pastimes. "I've seen each episode 10 times. If there really were a Starship Enterprise, I would want to be aboard." He hopes to find time to become involved with the Aerospace Club on campus and says he is really glad to see NASA in space again. "I think we (the United States) are missing out if we don't initiate a manned mission to Mars in the near future."

Hamwey enjoys camping, bicycling, skin diving and snow skiing. "I have come to enjoy Florida, though at first I thought I would miss winter. I really like the sunshine and beaches here."

Being at Embry-Riddle, with the constant focus on aviation, Hamwey is intrigued by the subject of flight. "At some point I want to learn how to fly." Hamwey comes into contact with ERAU pilots in his PS 103 class who he says, "are genuinely interested in physics, since they realize it will be of great use when they take courses in aerodynamics and performance."

"Being with students who are seeing the subject for the first time helps you remember just how fascinating physics can be. Many specialists have lost touch with that feeling. That's why I chose to work in a university environment; I don't want to just be sitting behind a terminal or a telescope all day long."

Dr. Robert Hamwey's background and experience are adding a new dimension to the Physics curriculum at Embry-Riddle. His expertise in upper atmospheric physics and astrophysics is of great interest to a large percentage of Embry-Riddle students. Under his guidance, our students will look at the sky and see more than ever before.



photo by Joe Szerman

SGA President evaluates the Food Service proposals

by Earl Stephens Jr.
SGA President

I have had the pleasure of serving the students in a variety of ways. Serving on the committee that was responsible for choosing the next food service company was the highlight. Maybe my evaluations of the individual presentations would help provide some insight into the committee's decision. These evaluations are strictly my opinion and do not necessarily reflect the opinions of the other committee members.

Morrison's
Morrison's overall verbal and written presentations were excellent. They have the experience, drive and determination to offer ERAU an attractive, innovative and economically sound food service program. I was impressed by their management support team, detailed market experience and overall commitment to excellence.

In a visit to their selected site, I was very impressed with their operation. The quality, appearance, taste and cost of the food was both excellent and appealing. The set up of the cafeteria and combination food court system provided an excellent variety. In discussions with the students, staff and faculty, the consensus was overall satisfaction, with personalized service and generally no negative comments.

They demonstrated a very realistic and appropriate

setup, compatible with our very needs.

Timing is critical in this matter. Morrison's presentation offered the greatest impact for change in the shortest amount of time. Morrison's offers the resources and experience to pull off a major change by Fall 1989. They offer the motivation and change we are looking for in a food service. The concept of a flagship school for Morrison's Corporation in Florida, fits the mold of ERAU and I believe this guarantees the commitment on Morrison's part to build a successful relationship with ERAU.

Service America Corporation
The overall presentation was very good. This company has the resources and experience to provide us with what we are looking for. They were generally interested in our business and can adequately do a good job. The site visited was aesthetically pleasing and very modern. I feel the services provided and overall setup was excellent. The student reaction was generally good with no major complaints.

I feel the presentation lacked the personal commitment on the company's part. The proposal for renovations and change was too relaxed, but could be accomplished over a short period of time. The company could do with or without our business.

Marriott
Good presentation, a large organization with many

support aspects involved. The ideas presented were excellent and concepts for change realistic. Student reaction to service was good. Their grand market place concept was very well presented with overall good variety. Span of time proposed for renovations, however, was inadequate. There was too much time involved for a change, but I feel they could do the job.

Epicure
The proposal was adequate at best. The time span for monetary commitment to renovations was too lengthy. Their proposal really didn't promote any quick changes in service or quality. This was seen at the site visit, which generally copied our existing setup with a few minor variations. Student reaction at the site was satisfactory at best with parallel negative reactions to service. The creativity involved in their proposal lacked enthusiasm and did not serve as a motivator to impress quick and direct changes.

In summary, a very interesting process. I would like to thank my counterpart on the committee (Dennis Wilkins-SGA Representative) for his active part in making this decision. I also would like to the students of Embry Riddle Aeronautical University for taking a strong part in this decision. We did all we could to consider your input and I can assure you it played a great part in my decision. I think in the coming semesters we will definitely see a change for the better.

CRASH

(continued from page 1)

"They picked the best place they could to bring it down," he said. "We feel like it is a miracle," he added, referring to Ms. Augustus survival.

Matt Bauries, of Beverly Hills, and Bill Parker, of Hamosassa, both Lecanto High School sophomores, watched the plane go down.

"We were driving toward Inverness, and the plane came across the road, right over us," Bauries said. It looked like it hit the top of a tree (on the south side of S.R. 44) spun around hit the power line (on the north side); it hit another tree and the wing came off and then it hit the ground," he said.

The students pulled over and ran to the wreckage. Parker said Friese talked to him, even giving him his name, but was not very coherent. He said Ms. Augustus was in and out of consciousness, and did not talk to them.

The investigation into the crash continued throughout the day on Saturday.

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1974 VW BUG--Completely rebuilt inside and out. 1976 1600 dual port, wild paint job, 13" mags front, 14" mags rear. \$2850 or best offer. Sally ext. 6741 or 761-8600.

1974 VW THING--The ultimate beach car! Turn heads at spring break! Runs great. No top. \$800 or best offer. Call 257-5447.

1987 ESCORT GT--Great condition, new tires, just tuned-up. Must sell to pay for school. \$7500 or best offer. Will negotiate payments. Ask for Chris 274-4041 evenings.

1973 NOVA HATCHBACK--350, 70,000 miles. Excellent maintenance records. No rust, no honds. Corvette jet blue paint. Must sell to pay tuition!! Phone 767-2059. \$1664.

1983 TOYOTA CORROLA SR5--Runs great, little rust. \$600 or best offer. Contact Kurt 257-5025.

1985 PONTIAC SUNBIRD CONVERTIBLE--Fuel injected turbo. Great shape. \$5,300. John 760-1528.

Cycles for sale

73 YAMAHA 500 DOHC--Good reliable transportation with extras must sell! \$425.26 or best offer. Phone 760-2204.

1986 YAMAHA FZ600--Great condition, garage kept, and well maintained. \$2100. If interested, call Dave at 672-7953.

MUST SELL--1987 CBR600. Red and white, Honda Hurricane, Vance and Hines performance exhaust, Dino jet kit, still under warranty!! SHIOJI GX-1 helmet, and new tires. \$2700 or best offer. Call Scott at 760-1887 or box 7429.

BIKE NEEDS RIDER--Kawasaki, 440 1st with 4000 miles is looking for a new owner. Old owner is asking \$600. Call Carl Wilson ext. 6405 8 to 5.

Roommates

ROOM FOR RENT--Beachside. Large home furnished, must rent by March. \$140 month. Ask for Barry 255-8067.

\$100 Cash incentive for 3 people looking to rent an apartment on the Halifax from May-August \$178/month per person. Convenient ride to ERAU and beach. Call 252-4200.

ROOM FOR RENT--1.5 miles from school. The room is in a 3 bedroom house which includes washer, dryer, ceiling fans in every room. The room is mostly furnished. Rent is \$220 per month and split utilities 1/3. Call 253-1125.

ROOMMATE WANTED--To share new 3 bedroom, 2 bath duplex. washer/dryer, cable, microwave, fully furnished except bedroom. \$200/month + 1/3 utilities. Quiet area in Port Orange. Call Kelly 767-1446 or reply to box 5634. Female preferred.

ROOM FOR RENT--In private house 2 miles from school, \$195 a month plus one month deposit, 1/4 utilities. Call Alex at 239-0550.

ROOMMATE NEEDED--For 2 bedroom apt. Beachside smoking o.k. cable/all utilities and rent 250/mo. Right off of Seabreeze call John at 257-1962 or write John Schmitt box G-212.

APARTMENT TO SHARE--Looking for a comfortable apartment? Check out mine. I need a roommate for the months of March and April. I currently rent a 2 bedroom, 1 1/2 bathroom, fully furnished apt. Your half of the rent would be \$200 per month, as well as 1/2 utilities. Security deposit required by property manager of \$150. If you're interested, give me a call. --Marty 257-1148.

Misc. for sale

DUAL CASSETTE PORTABLE RADIO--With one year service warranty - \$50. Sanyo walkman with auto reverse - \$30. Contact Matt at 255-3057 or box 6767.

HIP 41 CX--Brand new, still in the box. \$160. Call James at 239-6758 or stop by Engineering Office 5.

AVIATOR LEATHER JACKET--Brand new. Hasn't been used. Excellent quality and taste. Imported from Argentina. Retail value of \$400. For sale for \$200. Contact Enrique 760-0744, box 1112.

TARGA CAR CASSETTE STEREO--With music search and auto reverse. Only 1 year old. Sell for \$70. Contact Matt at 255-3057 or box 6767.

SCUBA DIVE EQUIPMENT--All equipment is in new condition. Everything must go! Call 253-1125.

FOR SALE--1 pair Jensen dual-cone speakers 6x9 with 1 pair 3x9 mount adaptors. Comes with covers and wires. \$15. Chris Logan ERAU box 6405. 239-0517.

83 WETBIKE--In excellent condition. Runs great, looks great. 35 + mph. If you've thought of buying a jetski, check this out first! Can be seen in front of Signa Pi fraternity. Trailer included 1500 or best offer. Ask for Lee, 761-7996 or box 8805.

BRAND NEW APPLE IICT--With word processor. Includes: monitor, surge protector, blank disks, and others. Will deliver. Call Paul at 274-5120 or leave message in box 6888. \$600 negotiable.

307 CHEVY ENGINE--Hear it run...\$125. Call Sal ext.6741 or 761-8600.

AIRLINE TICKETS--(2) one way tickets from Orlando to Miami via Piedmont. To be used anytime from now until Jan 9, 1990. Asking \$25 each. Contact Jose at 756-8361 evenings.

INSTRUMENT WRITTEN VIDEO COURSE--12 hours of video tape and text by ATC. All new questions. Rent for \$40. Ralph 756-9349.

WEIGHT BENCH WITH WEIGHTS--\$75.00. Like new. Call Wylie at 756-7960. Leave message if not home.

FOR SALE--Apple IIe computer, dual disk drives, printer, monitor, word processor, spreadsheet, data base, games, tutorials, manuals, more. Asking \$800. Leave note in box #6404.

Restore and preserve the paint on your car for the rest of your life. For details call 760-0660.

Need your term paper typed? I can do it. Typed, spelling and grammar corrected for only \$1 a page. Call 255-3057.

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PROFESSIONAL WINDOW TINTING--Years of experience, choice of shades and special student discounts. If you would like the old tint removed or just new tint, give Mark a call at 756-8215 or leave a message at box 6927.

Do you need to pass MA111 or MA112??--If you definitely want to pass MA111 or MA112, don't hesitate. Call 673-6492 and secure a passing grade!!

HELP WANTED--National Marketing Firm. 6 ambitious students to manage on campus promotions for top professional companies this school year. Flexible hours with earnings potential to \$2,500. Call 1-800-932-0528 ext. 24.

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- All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
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- Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
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1 WAY TICKET--From Rochester to Daytona. For month of March. \$125 or best offer. Call 760-0660.

Miscellaneous

ATTENTION CAR OWNERS--Is your car dull because of oxidized paint? Professional auto buffing and waxing can remove the oxidized paint and return a brilliant shine to your car's finish. Only \$35! Contact Andy at 252-9289 or box 7450.

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Personals

DAVID SCHNEIDER: Where have you been? I've been waiting hear from you! Please write at box 2066. Or in next weeks Avion.

Suzette, Suzette, where for are thou Suzette. Glad you got your bike fixed and are staying around. Stop by sometime.

TAMMY SMART, I have been looking all over campus for you. I have the pictures of you from the ERAU send-off party when we were water-skiing. Reply to box 2066.

HEY LUBE, Don't let us down. Big John's was good, but this semester's going to be much, much more fun.

HEY FROGGER, Thanks for the Concorde. Happy B-Day. Stop by sometime, you still owe me dinner.

HEY IRMO, HOW DO YOU FEEL? If this slogan sounds vaguely familiar to you, I would like to get in contact with you. Please respond in next issue of Avion.

ATTN! THURS. MOVIE GOERS: I am looking to meet the guy who accompanied me during the 1/19/89 showing of Die Hard. You know who you are - we sat by the elevator upstairs and we drank Dr. Pepper. Respond in next weeks Avion - deadline is today.

LAURA, Congratulations, you made the personal ad!

HAPPY, Mom says you pick on her. Dad says you can actually talk. I say the Everglades could never have looked so good. I love you.

CHIPS, Fire up! Have fun on your break. Hope all your fantasies come true. Party on dudes.

MONKEY BRAIN, I'm so glad that you are here. It's been so long. I hope your trip is worth it and you have a better time than last year.

DEAR GEORGIA PEACH, I can't live without your body. I'll be back next week.

ATTENTION: Women without undies I'm interested and coherent.

HELLO UP THERE, I hope all your troubles work out very soon. I miss you and can't wait for spring break. I love you.

BSQUARED, United we stand, divided we fall. Words of wisdom. I love you.

TO SPORTO, Ease up, you toilet-seat bombardier! SGK P.S. Keep it working and it won't fossilize.

GENIE, Let's swing on a star and laugh a little! I like your style.

DONAGENE, We are finally together again, it feels great. I hope that I'll always be part of your life; forgive my insecurities, I still feel like a boy but you make me feel like a man. Let's love and be happy - life is too short.

WENDY C, Thank you for teaching me patience. I won't mention you know what anymore. Stay warm and drink a Peppermint Schnapps and Hot Chocolate for me.

LAURA, Congratulations, you made the personal ad!

Page by Page at 8:00 on Tuesday, I knew it could be done. Thanks for the great job this week, your rewards will be great in heaven.

When are you going to fix me something besides lasagna? Could you maybe do chicken?

Have you made your decision yet? I am earnestly waiting.

I understand and can still be friends?

HELP WANTED--National marketing firm seeks ambitious, mature student to manage on-campus promotions for top national companies this school year. Flexible hours with earnings potential to \$2,500. Call Lianne or Rebecca P. at 1-800-592-2121.

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L	A	N	D	S	O	N	E	R	S	E	
E	N	T	E	E	N	D	S	E	E	D	

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BURBS

(Continued from page 14)
Corey Feldman which represented half the "Lost Boys" ensemble present as an interested observer in the neighborhood's activities were all given small and mostly meaningless parts. I found Corey Feldman particularly annoying as his face adorned the closing of the movie. Whatever was trying to be ac-

complished here, it appears may have been lost in too many opportunities. Often it seemed that great lengths had been gone to in order to shoehorn in just one more actor to twik our collective memories. Although the movie was not a total failure, it did prove interesting to watch. Perhaps, this is one movie that you should review for yourself.

DISNEY

(Continued from page 15)
celebrate with legendary characters such as Mickey Mouse and Roger Rabbit. To add excitement to the sun and surf routine, collegians will have a chance to conquer Space Mountain in the Magic Kingdom and brave the "Maelstrom" --a wild ride through rivers and fjords that's part

of the newly opened Norway, Gateway to Scandinavia Showcase at Epcot Center. A two-day special Disney Break '89 ticket available for \$30.95 offers savings with admission on separate days to each of the two parks. In another offer, students pay only \$19.95 for one day at either attraction, saving over the regular \$28 admission.

Disney Break '89 tickets are available at both the Magic Kingdom and Epcot Center. Magic Kingdom hours are 9 a.m.-9 p.m. March 1 through 12; 9 a.m.-10 p.m. March 13 through 17; and 8 a.m.-midnight March 18 through 31. Epcot Center hours from March 1 through 17 are 9 a.m.-10 p.m.; from March 18 through 31, hours are 8 a.m.-11 p.m.

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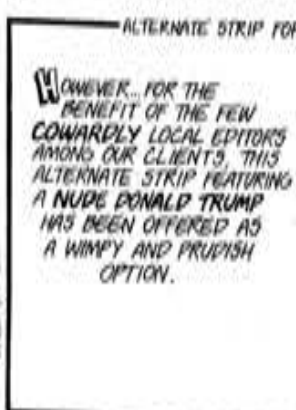
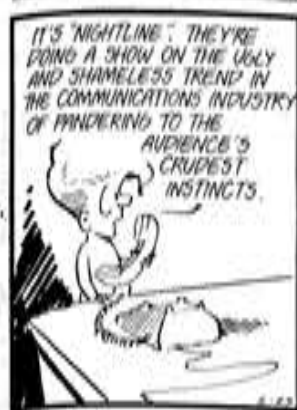
To add a little magic (and money!) to your Easter season, apply at the Walt Disney World Employment Center. **Open seven days a week 9 a.m. to 5 p.m.** EXIT 1-4 at SR 535, take 535 north to 2nd traffic light. Turn left, go 6 miles and follow the signs to the Employment Center.

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Proof of employment eligibility and identification required. Bring Driver's License or State I.D. and original Social Security Card or Birth Certificate with you.

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The Far Side

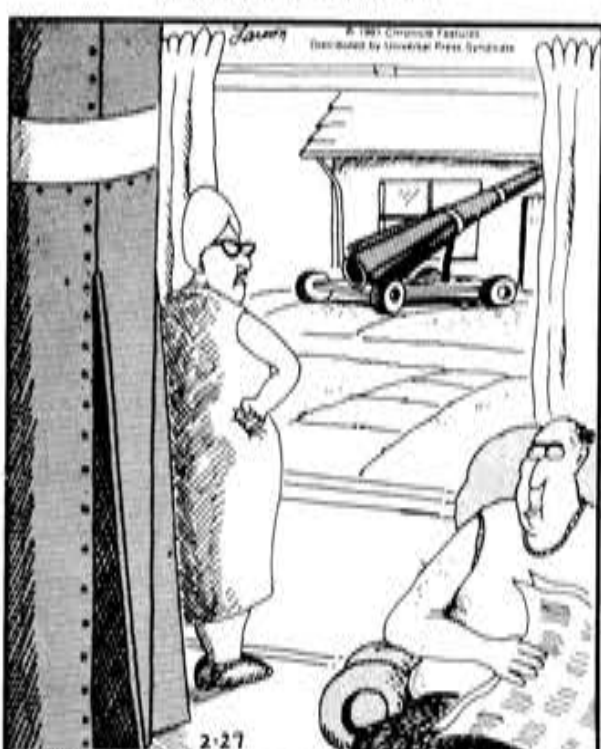
Gary Larson



"I guess he made it. ... It's been more than a week since he went over the wall."



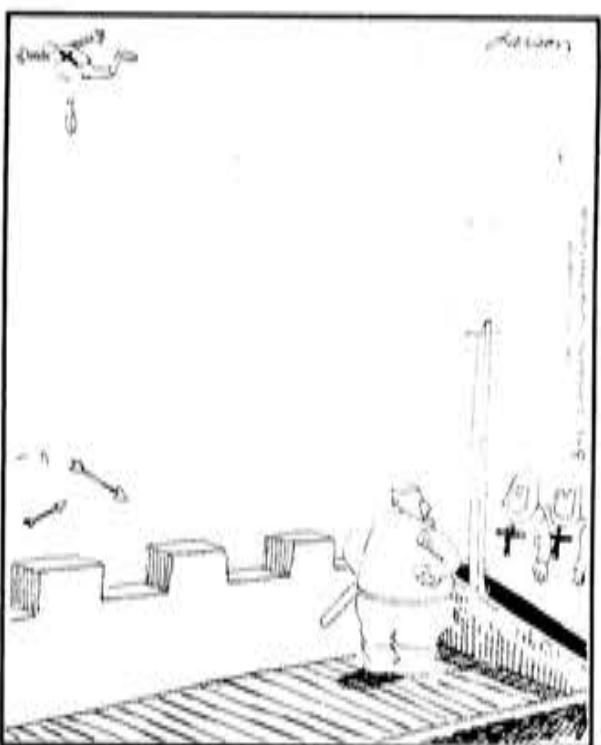
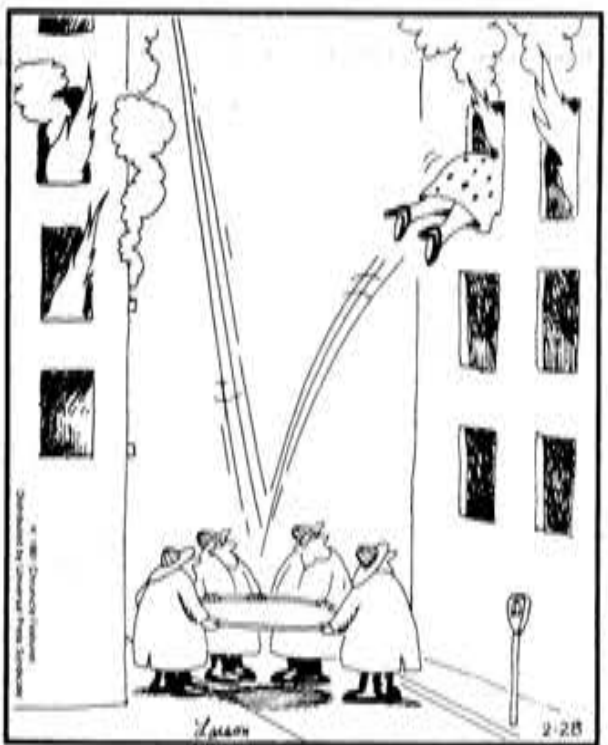
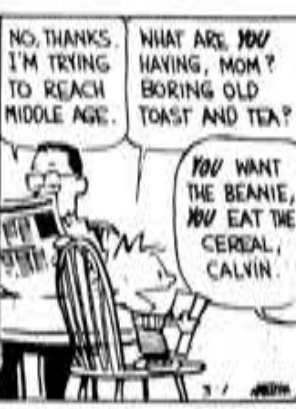
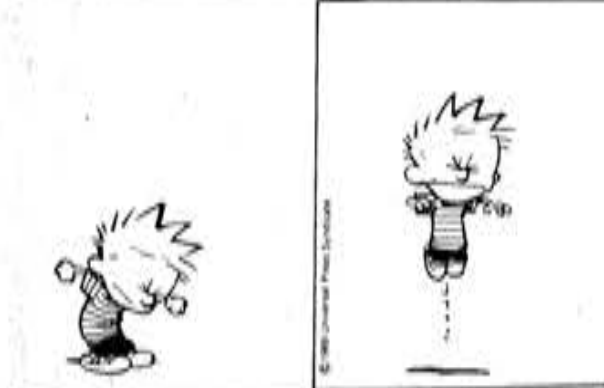
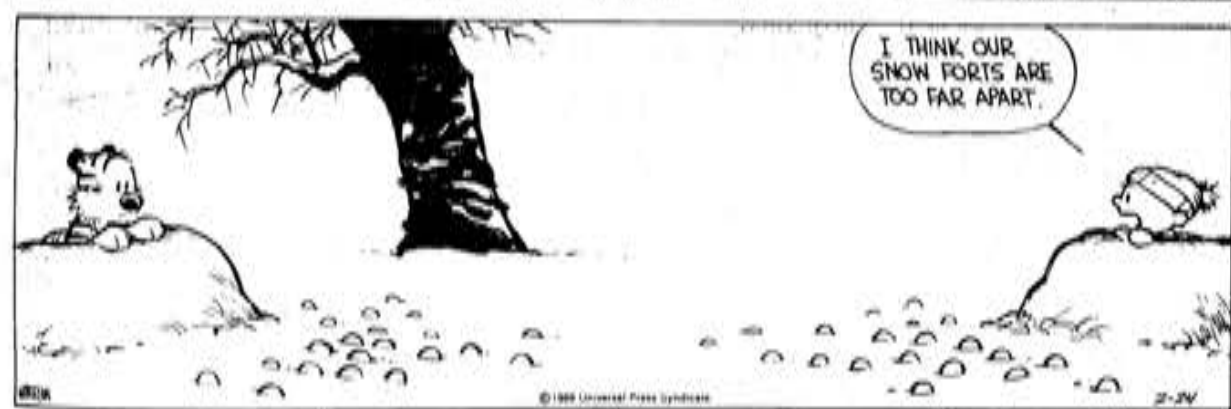
"One of the nicest evenings I've ever spent at the Wilsons ... and then you had to go and do that on the rug!"



"Wouldn't you know it! Now the Hendersons have the bomb."

Calvin and Hobbes

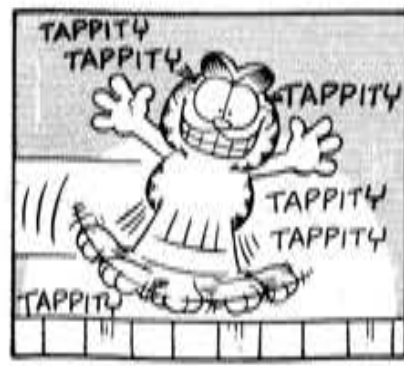
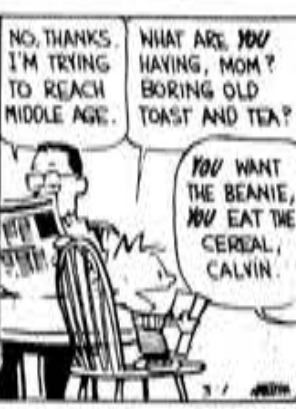
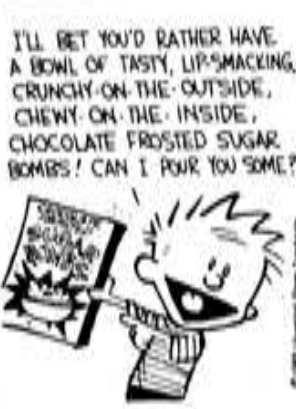
Bill Watterson



"I told you guys to slow down and take it easy or something like this would happen."

Garfield©

Jim Davis



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