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Embry-Riddle Aeronautical University

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As the SR-71 moves into retirement, project Aurora undergoes preparation to take its place. . . page B1

Mathew Broderick leads America's first black fighting force in *Glory*.

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ReadySoft's Space Ace. . . total space waste.

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AVION

An Award-Winning Newspaper by Students for Students

Volume 64, Issue 3

Embry-Riddle Aeronautical University, Daytona Beach, Florida

February 7, 1990



The powers that be...

Members of the Student Flight Advisory Board listen to the viewpoints of approximately 35 students during a forum concerning the upcoming issue of drug testing.

University considers drug tests

by Joseph Szarmach
Staff Reporter

Student drug testing was the topic of the Student Flight Advisory Board open forum held recently.

The purpose of the forum was to get student opinions regarding various policies that the University could implement.

The Student Flight Advisory Board is composed of flight students chosen by faculty to relate the students point of view to the administration. In addition to the flight student representatives, an avionics representative was also present at the meeting.

According to Vice President Ledewitz, the Board of Trustees voiced a desire to implement student drug testing in addition to the plan to test employees.

The Board's desire in making the University a leader in the aviation field also influenced this decision.

The student testing program is separate from the employee program. According to the Student Flight Advisory Board, the proposed student drug testing program is a voluntary. Students in degree programs which would require testing upon employment in their field could be tested, if they desire. This includes pilots, mechanics and avionics specialists.

But in a telephone interview, Paul Meduffed

Chairman of the Flight Technology Department stated he would like to see a mandatory program which, in his opinion, would best serve the students interest. "But we are serious about getting student input" he added.

Currently, the program is in its infant stage and many details need to be worked out.

"We want to get student opinions before we implement any sort of student drug testing program" said Ledewitz.

The employee testing plan, which was already approved, will test employees in "safety sensitive" positions such as flight instructors.

This mandatory plan will go into effect in August and under this plan, some students will be tested, but only if they work for the University in the safety sensitive areas.

The purpose of the open forums is to get input from the students to shape the drug testing program. About 35 students turned out to voice their opinions. Various opinions, both for and opposed were voiced, but there were a few common concerns.

One common concern voiced is who will pay for the test. The students seemed to reach a consensus in opposing any student funding of the program. But that was one of the few agreements reached.

Another proposal being considered is upon graduation, if the student was completely drug free, a "drug free certificate" would be given to that stu-

dent. This certificate can then be presented to a potential employer.

Many of the students attending voiced concerns that the certificate would lead to discrimination.

"If an employer new about these certificates and I refuse to participate, what is the employer going to think when I tell him that I don't have one because I refused to urinate in a cup?" said one student.

Another concern was what would happen if the test result yielded a false positive. According to the Advisory Board, the test proposed would not be the extremely sensitive type and is not likely to give false positives. The sample can also be tested twice.

Some students claimed the tests would be totally unfair and stated that "as a gesture of good will, the Administration should be test also."

Students also voiced concern about the confidentiality of the test. Some worried that the University could not keep the results completely confidential. "The University can't even keep my address confidential" said one student. "The only thing they have to do is go up to the front information desk and ask for it," he added.

Advocates of the program argued that students who are opposed to testing are in the wrong business and that sooner or later, graduates of these safety sensitive positions will be tested.

see Tests, page A11

LDEF receives 'out of this world' data

by Chip Zedrow
Space Technology Writer

Kennedy Space Center -- With the completion of STS-32, scientists around the world are patiently awaiting the disassembly of the Long Duration Exposure Facility (LDEF) satellite and its associated experiment boards.

LDEF was deployed by a shuttle crew aboard Challenger flight 41-C on April 7, 1984, and was to be retrieved after only one year of space flight. Due to the Challenger accident in 1986, the satellite remained in orbit until two weeks ago when astronauts aboard STS-32 and Columbia used the Remote Manipulator System (RMS), or the shuttle arm, to grab and store the satellite for its trip back to Earth.

LDEF carried 57 experiments on board and was used as a test bed for several space exposure experiments. It was originally placed in a gravity-gradient stabilized attitude orbit at about 250 nautical miles. Over its five year extended space flight the satellite descended to an altitude of just over 150 miles. The loss in altitude was due to atmospheric drag and the recent blasts of cosmic rays from giant solar flares.

STS-32 was to have recovered LDEF in early December, but delays

in the launch processing caused a slip in the launch date and an increase in fears that the 11 ton satellite would not be rescued in time before its fiery crash into the Earth's atmosphere.

The experiments on board were categorized into seven categories: materials and structures, electronics and optics, power and propulsion, life sciences, astrophysics, planetary, and research experiments. With the extended flight, several experiments were destroyed or overexposed, but the remaining experiments will benefit from the extended stay.

LDEF was a 12-sided aluminum structure that was 30 feet long and 14 feet in diameter. It was built by Langley Research center in Virginia in 1978. It was originally designed to fly several missions, but it will probably not be used again.

The expected benefits from LDEF should aid scientists from around the world in understanding the origin and evolution of the universe, the solar system and the Earth. Manufacturing improvements of crystals should also be developed after studying the developed space crystals. The major data return from this LDEF mission will be in the adaptation of space materials and their survival. The Space Station will stay in.

see LDEF, page A11



Data download...

Scientists at the Kennedy Space Center will begin disassembling data collected from the LDEF over the coming weeks.

Jaguar takes home 24 Hours trophy

by Tim Pendergast
Staff Writer

The Castrol Jaguar XJR-12's of Tom Walkinshaw Racing captured first and second place in the twenty-fourth Sunbank 24 at Daytona. The start of the race saw the number 83 Nissan of Geoff Brabham give chase to and then take the lead from the Havoline Porsche of Bob Wollek.

The Nissan held the lead until the third hour when the Joest Racing Porsche 962C of Jean-Luis Ricci took the lead during pit stops. The Nissan again grabbed the lead in the fourth hour and held it until the 13th hour when the Jaguars took over the lead and never looked backed.

This year's race rewrote the record books in two categories; first the official track record was broken on Thursday in the Havoline Porsche 962C driven by Frenchman Bob Wollek at a speed of 131,000 MPH, which topped the old record of 129,563 MPH, set in 1988 by Italian Mauro Baldi and second, the winning Jaguar team of Andy Wallace, Jan Lammers, and Duvy Jones set the new record for distance covered by completing 761 laps (2709.16 miles) in twenty-four hours. Others notables in this year's race were the two nearly identical crashes; the first when Oscar Larrauri, driving the

Brun Motorsports Porsche 962C, was setting a record qualifying time on

Thursday and lost control of his car coming out of the east banking, and the second when Derek Bell, driving the MOMO racing Porsche 962c, lost a wheel coming out of the east banking. Both cars spun around causing air to get under the ground effects and this in turn caused them to go airborne.

Each landed on its roof and then slid down the track before coming to rest on the apron in front of the pits and main grandstand. Larrauri was unhurt and crawled from the cockpit of his mangled Porsche before the safety crews could reach him. Bell cut his lip and mentioned losing consciousness from the fumes that leaked out while the car was upside down. Both cars were to badly damaged and had to be withdrawn. Larrauri's accident opened the door for Wollek to go on with his record setting run.

Surprisingly, the Walkinshaw Jaguars qualified back in eighth the seventeen car GTP field. Dorsey Schroeder, driving the Whiter Radar sponsored Roush Racing Mercury Cougar XR-7 qualified on the pole position for the GTO class with a speed of 116,108 MPH. Scott Schubot, driving the S&L Racing Buick Spice on the

see Jaguar, page A11



Prowling cat...

Tom Walkinshaw's Castrol Jaguar XJR-12 team took home first and second place at the 24 Hours of Daytona.



Sports

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Sports . . .

ERAU lacrosse battled the Univ. of Florida to a 7-7 tie . . . page A10

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Dr. Millie Hughes-Fulford is one of the astronauts scheduled to enter space this year . . . page B2



Space Technology

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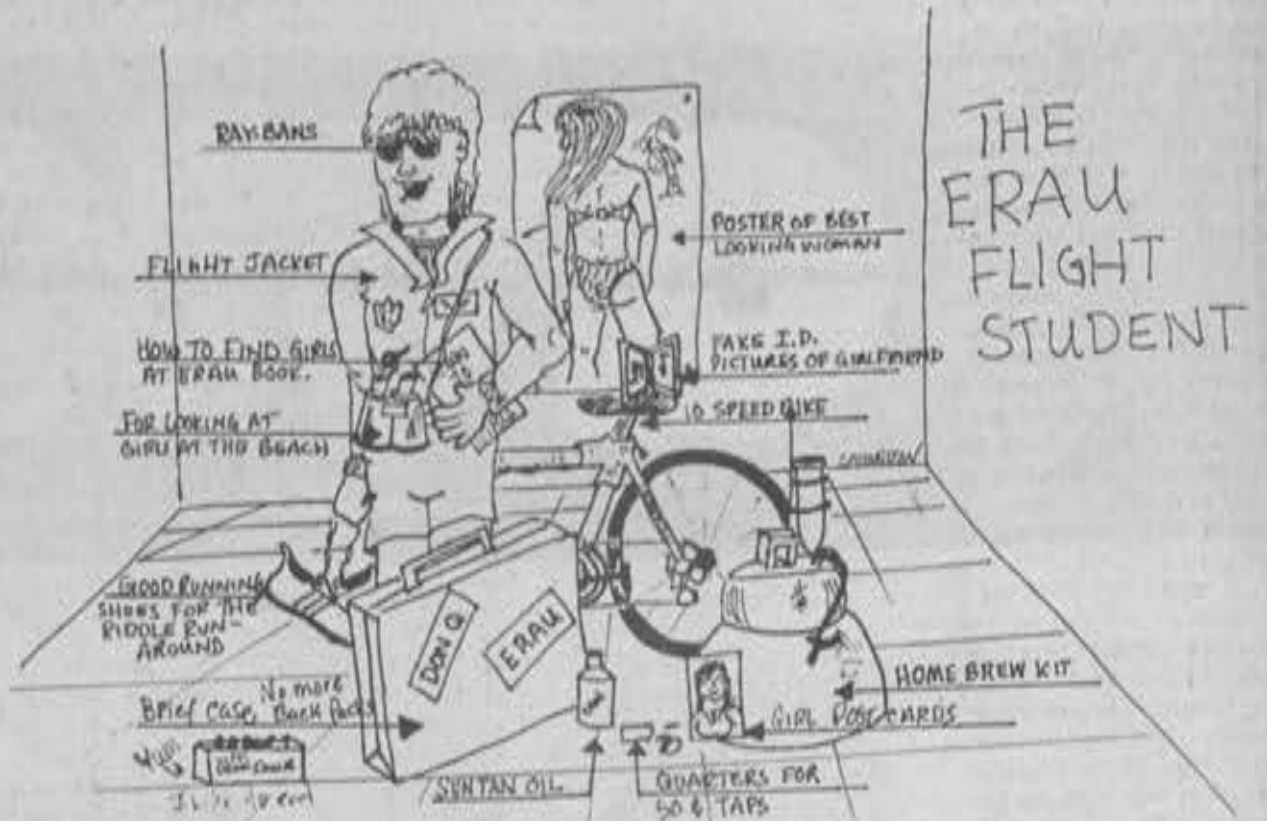
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Editorials

The future can always be dreamed of

While I was lying in my bed the other night, I had a vision. It was a waking dream of things to come. The vision took place in what seemed some 25 years from now. It emphasized one of my biggest hopes for the future.

I'll be sitting in some kind of airport or aviation facility. After just having received my promotion, I'm now responsible for the hiring of new employees for my company.

In addition, I will be well established in my job and probably have started my family. I might even have kids (what a concept!)

My office will be a medium size room, a good representation of my accomplishments. My secretary will buzz me, "Mr. Kammerman, you have an applicant scheduled for 3 o'clock." Next, the door will click, and in will come a youngish man or woman, about 20ish. "Have a seat, my friend. Let's talk."

As interview progresses, I slowly learn about the person on the other side of my desk, mostly petty details that most of the interviewee's I have seen have in common. The prospective employee will say, "...and after I graduated with honors from Washington high school, I enrolled at Embry-Riddle Aeronautical..."



Martin Kammerman
News Editor

Hearing this, my heart will swell with pride thinking of the many good times that I had at this University. At this point I will finally realize what the whole point of what my education was about. I

will remember the times I sat in a dull class, waiting for its end wondering if my time would one day be justified.

Stopping the interview, I query the person on the latest happenings at the University. I will hear about the new eight story Student Center, and the recently completed 50,000 seat stadium. I will also hear about those teachers and professors that are still there due to their persistence.

As my vision of things fades away, and I come back to reality I come to several conclusions. The time that we all spend while at ERAU will most surely pay off for us. Many of us work hard to get good grades for the classes we and our parents paid hard earned money for.

Sure, we all like to have a good time, occasionally at the sacrifice of a few points on our GPA. We've also know the old saying: "all work and no play..."

Some night when you are laying in bed, consider the things that the future holds for you. Try to be optimistic. When you see what might be, you are then able to set your goals more in that direction. Try it.

Letters to the Editor

Basketball comments

To the editor:

John Luke stated in his editorial last week that the Basketball Team are "losers." He suggested that athletes receive scholarships to participate in Varsity Athletics. Moreover, he said that better athletes would come to ERAU if scholarships were available to them. John Luke doesn't mean "better athletes," he actually means "bribeable" athletes. This school is promoting education not athletics. As for better athletes, money does not make an athlete. Dedication, motivation, and enthusiasm make an athlete. Take Eagle - Wrestling for example. The team has two national competitors: Jim Beams and myself. The team also has several rookies. How can you expect a new team either basketball or wrestling to win all the time? The basketball team needs support to be competitive, not better athletes. As you know, the basketball team has won one game. Did you get up and dance when you were or did you learn to walk first?

Why don't you quit whimpering and feeling sorry for ERAU Athletes. You don't even have a vested interest in any of the sports. Anyway, I don't see you out on the basketball court helping the athletes. I don't see you doing anything except complaining.

If you don't want any teams which may lose representing ERAU. Go to another school. The athletes here want your support not your negative attitude.

Roger Coezine
Eagle Wrestler

Teacher evaluations

To the editor:

Now that this semester is well under way, it has occurred to me that the teacher evaluations we all must fill out at the end of the term are useless.

Several semesters ago, I filled out one on a teacher I wish not to mention, I gave him/her a D when it came to the final rating. I welcomed and filled the comment section and finished the evaluation with "I hope someone takes this seriously."

Well, time has now passed and I have seen no change in the situation by talking with fellow classmates and from my personal experience this term. I felt that I had not learned an understanding of the material presented and the implications could be detrimental. Now, I have found this to be true.

The reason I write this is because of a letter I read in this section last week. In that letter, a student named Derrick Seys thanked the university for the good times and his education. I feel the same way, but see a problem that could also give us a bad rap.

This problem has not gone unnoticed, but unchanged. Do the deans of this place think the students are out to get the teachers? Some of us are concerned about the education we and others receive.

Should this problem continue, several students will have not gained the education they were promised. As previously stated, I hope this is taken seriously.

Name withheld upon request

Get more out of College by getting involved

I wonder if the student body is alive or just a multitude of humanoids walking around in a perfect state of suspended animation.

College is a time to be involved, especially in your own school's affairs, and has in the past been the time in one's life when he gets most involved in the world around him.

But I have this funny feeling that the 90's are going to mark a total turn around of this attitude. If this happens I think that Embry-Riddle will be the focal point for this new trend.

For some odd reason students at this university have a strong case of apathy in their blood. They just refuse to get involved in anything at this school. I'm not talking about participating in sports or clubs.

That's easy, and I think that almost everyone at the school is involved in one or more clubs. What I'm addressing is the subject of issues at this school and the fact that no one gets involved in any of them.

Never do I see a student give his input when an issue is brought up. The faculty seems to think that they understand the view of the students, and will often pass ideas through the school with the belief that it is what the students want. In the end the students are left with programs they really don't understand or want.



Joe Salerno
Staff Writer

Recently the issue of athletic scholarships was raised here at school, and the SGA voted on the subject at a public forum. The only students in atten-

dance were the SGA themselves and students who were on a sports team and wanted the scholarships to go into effect.

The rest of students were not represented at all because no one wanted to take the time to show involvement. That is a disgrace. What the rest of the students in the school were saying is that they didn't care what new programs were imposed upon them. Well, if their not going to be at such meetings, then I hope they will not start complaining when their tuition money is used to pay another students way through school.

Taking a look through Riddle yearbooks of the past; they suggest an involvement that now seems to be waning. Pool tables in the University Center provided students with an on-campus place to relax and forget about their exams and homework - if only for the moment. Academic burnout is a very real and present danger. We, as students at this university are the ones who can make the changes; it really is our school after all. This year's Phoenix yearbook staff is a mere skeleton of past editions, and Prescott's yearbook has been eliminated completely because of a lack of interest.

The students here need to get involved. It's that simple. Until they do they really aren't students of Embry-Riddle in the truest sense.

Student Forum

The Avion asks: What do you want your new SGA president to do for you?



James Romano

Lower tuition, see what he could do about the Airway Science program being dropped, and work a better deal with Morrison's.



Niloufer Mukadam

I want to know who he is, he should not just be a face on a poster.



Tammy Smart

Build an overpass and do something about the food & parking.



Dave Linder

More entertainment and more concerts and more parties.



Ayla Abou-Chaaban

Bridge to ASSL, something about the parking, I have to park so far away.



John Graff

I feel that some of the guidelines at Morrison's, what to take and the salads, should be revised.

Underpinnings of United States military jolted by breakup of Soviet Empire

(AP) The cracking of the communist East bloc has opened the path to profound change in U.S. defenses, and the fallout for military chiefs and soldiers, weapons makers, political leaders and taxpayers is just coming into view. "A revolution in military affairs could be in the making," says William Kaufmann of the Brookings Institution think tank and a frequent consultant to the Pentagon. The precise features of this transformation are fuzzy but the direction is clear: smaller Pentagon budgets, fewer troops and a shrinking pipeline of new weapons.

The most frequently asked questions now are how radically will the military be reshaped, and will Congress switch defense dollars to social programs such as housing and education that were squeezed during the Reagan administration's military buildup? Military planners already are rethinking traditional defense strategies while trying to hold together the North Atlantic alliance since few now believe the fractured Warsaw Pact armies pose a major threat to Western security. The glue that has kept NATO together for 40 years is fear of a surprise Soviet invasion of Western Europe. With those fears now fading, will NATO come unstuck? While even the Pentagon's biggest supporters in Congress see more relaxed East-West relations, some caution against assuming that democratic reforms and moves toward free-market economies in Eastern Europe would last if Soviet President Mikhail S. Gorbachev was ousted.

"A return to past Soviet behavior is the biggest risk we must consider in reordering our priorities and restructuring our own defenses," Sen. John Warner of Virginia, the ranking Republican on the Senate Armed Services Committee, said recently. Even so, the new world order means

running a new-look U.S. military on less money — perhaps a lot less. President Bush proposed to Congress a slight trimming of defense spending, to \$292 billion, for the budget year starting Oct. 1. Pressures are great on Capitol Hill to wield an even heavier ax.

"The reality is that we must plan on our defense budget going down several percentage points every year for the foreseeable future," says Gen. Colin L. Powell, the top U.S. military officer as chairman of the Joint Chiefs of Staff. Kaufmann says military spending by 1999 should be cut to half today's level. The new austerity, in turn, translates to tougher times for military contractors. The arms industry boomed during the Reagan administration and now employs one in five of the nation's manufacturing workers and one-third of scientists and engineers. The boom may not bust, but some industry workers and their communities already see reason to worry about layoffs and pay cuts. "There can be a dark side" to the outbreak of peace, Ohio Gov. Richard Celeste said at a special conference of small- and medium-size military contractors Jan. 24. The jobs of about 200,000 Ohio residents depend on the defense industry. Other states, including California, Virginia, Washington, Maryland and Missouri, are even more closely linked to the health of military contractors. The bright side, in the view of many economists and defense analysts, is that the expected Pentagon savings during the 1990s could be converted to a "peace dividend" — money to combat homelessness, build new schools, repair old roads and bridges, in-

tensify medical research, combat drug abuse or cut taxes. The Bush administration, however, sees two holes in the "peace dividend" theory. First, it says, no major savings should be expected until new arms control deals are struck and the pro-democracy movement in Eastern Europe gains a firmer footing. Secondly, huge bills for correcting mistakes of the past, such as untold levels of contamination from nuclear weapons plants, will come due in the 1990s. Defense Secretary Dick Cheney, presenting details of the proposed 1991 budget, said: "The peace dividend is peace," meaning the huge military investments of the past have bought a more secure international order, but that drastically reducing future military spending could undermine that security. That line of thinking, and Bush's cautious nature, will surely face a severe test in the Democrat-controlled Congress, where debate over spending priorities in light of a retreating Soviet military menace already is under way.

Some of the biggest squabbles are expected to focus on Bush's desire to preserve the expensive strategic nuclear program. The president's 1991 budget adds \$900 million for research on the Star Wars missile defense project and spares the multibillion-dollar B-2 stealth bomber program and the Navy's aircraft carrier battle groups.

Another likely "big-ticket" target for Congress is the administration's request for \$363 million to start building two nuclear reactors in Idaho and South Carolina to produce tritium, a radioactive gas used to make nuclear

warheads. Critics say tritium supplies already are adequate to meet future needs, so the \$7 billion or more needed to complete the new reactors is unjustifiable.

Rep. Ron Wyden, D-Ore., says the administration may be forced to scrap plans to expand the nuclear bomb factories. "This is going to put a much heavier burden of proof on those who want to spend for new facilities," says Wyden, who advocates opening U.S.-Soviet negotiations to ban the production of plutonium, a key ingredient in nuclear weapons. Perhaps the fiercest fight of all will be over base closings. Bush's budget calls for shutting down or consolidating about 55 bases. Cheney offered no estimate of savings but said fewer bases will be needed as troop strength is reduced. The outcome of these debates is likely to influence not only the future shape of U.S. defenses, but also the fortunes of military supply and consulting companies and their hundreds of thousands of employees.

"There is a shakeout taking place in the industry," says Jacques Ganster, senior vice president of Analytic Sciences Corp., a defense contractor. The prospect of large job losses has given new prominence to debate in Congress over "economic conversion" legislation aimed at helping defense company managers and workers switch from production of military hardware to civilian items. Critics of this approach say the economy can cope without new help from the government. They note that in the eight years following the 1968 peak in defense spending, during the Vietnam War, the military budget was slashed 37 percent. "While there was pain and suffering, we managed it," said Kaufmann of the Brookings Institution, End Avion for Sunday, Feb. 4.

"There can be a dark side" to the outbreak of peace...

Ohio Gov. Richard Celeste

Engines probably OK in Friday's Pensacola crash, investigator says

PENSACOLA, Fla. (AP) The two engines of a light plane that crashed Friday, killing a DeFuniak Springs judge and Pensacola businessman, probably did not malfunction, a federal investigator says. Ronald J. Meyer, an air safety investigator with the National Transportation Safety Board's Miami office, said he came to that tentative conclusion Saturday based on information from witnesses, including Alan Shock, a former Eastern Airlines pilot who saw the crash from his driveway three blocks away.

"The plane was intact and doing fine," Shock said. "It was flying perfectly." But, he added: "At the angle he left the clouds, he was too low, too late and too fast. There was no room for maneuvering." His account and those of other people interviewed by Meyer contradicted another witness who had told police Friday that the plane's engines were sputtering. Meyer said his investigation will focus on the possibility of pilot error if further evidence substantiates that the plane was operating properly.

The Beechcraft Baron had just taken off from Pensacola Regional Airport, flying on instruments into a heavy fog. The plane slammed into a house and exploded in flames about a mile south of the airport. The pilot, James G. Loudermilk, 66, president of Mocar Oil Co. and

the Beacon convenience store chain, and his passenger, Circuit Judge Clyde B. Wells, 57, were killed along with four hunting dogs. They were headed for a Lake Charles, La., for a hunting trip. No one was hurt on the ground.

The people who lived in the house, Gertrude Hicks, 58, and her grandson, Shawn Hicks, 5, were not home at the time. Their house was destroyed by the crash and fire that followed. "This is one of the worst crashes I've ever seen in the sense of putting the bits and pieces together again," Meyer said. The pieces are so small that no heavy equipment has been necessary to clear the scene. The bodies of Loudermilk and Wells were trapped in the wreckage of the fuselage under debris of the gutted house. Workers began moving wreckage Sunday.

It was the second crash within a year of a small plane within minutes of taking off from the Pensacola airport. Gulf Power Co. Senior Vice President Jacob Horton of Pensacola and two Southern Company Services pilots from Biloxi, Miss., died last April 10 when their twin-engine plane crashed a couple miles north of the airport on a flight to Atlanta.

A cabin fire erupted in the Southern plane, but investigators are still trying to determine how it started.



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Voyager Pilot featured at Women in Aviation Conference

by Phyllis A. Salmons
 Director of Outcomes Assessment and Self Study

Jeana Yeager, who with Dick Rutan, flew the history-making Voyager in 1986, will be featured at a conference entitled "Images of Women in Aviation: Fact vs. Fiction" which will be held on March 30-31, 1990, in Prescott, AZ. The conference is co-sponsored by Embry-Riddle Aeronautical University and the Arizona Humanities Council.

The purpose of the two-day conference is to investigate the historic and contemporary stereotypes of women in non-traditional careers of aerospace through a study of our shared heritage in fiction, non-fiction, film, and personal experience. Participants will explore the ethical issues of sexual bias and the cultural implications of the emerging role of women in all aspects of aviation.

The conference will be attended by aviation enthusiasts, educators, journalists, and anyone else interested in the past role and future potential of women in aviation.

The conference directors are Dr. Peggy Baty and Dr. Berta Parrish of Embry-Riddle, Prescott.

Baty, Associate Dean of Academics, is a certified flight instructor, single- and multi-engine commercial with over 1,200 hours pilot-in-command time. She is the author of numerous articles on the subject of aviation, education, and women in aviation. She has directed and coordinated numerous workshops and seminars during the last eight years. Baty formerly taught in the Aeronautical Science Department at Embry-Riddle in Daytona Beach.

Parrish, Division Head of the Aviation Business Administration/Humanities and Social Science, has authored over 35 professional articles including studies of gender stereotyping on television and in young adult literature.

Jeana Yeager will speak on "Around the World: Making Your Dreams Come True." In March 1981, with Rutan, Yeager founded Voyager Aircraft, Inc., devoting herself to the building, testing, developing and flying of the Voyager for its first around-the-world, nonstop, non-refueled flight. Yeager managed the ground support and office staff, creating and implementing the grassroots funding effort of the Voyager Impressive People, or VIP Club.

Yeager and Rutan worked together on each of the Voyager's 69 flights. In July 1986, they flew it on a 116-hour flight setting a new closed course absolute world distance record. It was the first time that a woman had ever been listed in the absolute category.

On the morning of December 14, 1986, Rutan and Yeager took off on their history-making flight in the Voyager, flying the maximum circumference of the globe, nonstop, non-refueled in nine days, three hours, and 44 seconds.

In May 1987, Yeager and the Voyager Team were awarded the 1986 Collier Trophy, one of the most coveted aeronautical honors in America. Also in 1987, Yeager and Rutan were presented the Eagle of Aviation Award by Embry-Riddle Aeronautical University.

Several individuals of Embry-Riddle, Daytona Beach, will be participating in the conference. Three humanities faculty and five Daytona Beach students will make presentations at the conference.

Jan Goodrich, a faculty member for eight years, will make a joint presentation with Dr. Baty entitled "Holding Up One-Tenth of the Sky: A Survey of Gender Issues

Among Women of Embry-Riddle/Daytona Beach." The survey will solicit responses from the 561 females at the Daytona Beach campus. Baty will replicate the survey by questioning the 247 female students enrolled in Prescott.

Steve Glassman will make a presentation concerning the role of women in the history of Embry-Riddle Aeronautical University. A number of women were trained and served as instructors during World War II. Also, when Isabel McKay assumed the Presidency of Embry-Riddle in 1945, she became the only woman to head an aviation school in the United States.

Ann Magaha, who has taught in Daytona Beach for 17 years, will close the two-way conference with an original dramatic presentation entitled "Heroines of the Air," featuring students from the Daytona Beach campus. The play involves five famous women aviators, Anne Linbergh (played by Nina Radosta), Bessie Coleman (Genese Turner), Harriet Quimby (Pamela Beamer), Amelia Earhart (Sheila Cline), and a male (played by Jackie Cochran (Cassandra Clark), and a male (played by Scott Johnson).

Amy Carmien, publisher of *Women in Aviation*, will attend the conference along with several of her staff and writers. Carmien hopes to interview a number of participants for future features in the bi-monthly publication. Carmien is a graduate of Embry-Riddle who majored in Aviation Maintenance Technology.

Further information about conference registration or presentations should be addressed to Public Relations at (904) 239-6360 in Daytona Beach, or at (602) 776-3704 in Prescott.



photo by Lynn Andra

Role models...

Dr. Peggy Baty and Jeana Yeager, pictured left to right, will both be attending the Women in Aviation Conference to be held at the Embry-Riddle campus at Prescott.

Daytona Beach prepares for Spring Break 1990

by Brian Cerni
 Campus News Editor

Once again, the City of Daytona Beach is preparing for the annual deluge of college students who frequent this part of the world to escape the pressures of their scholarly pursuits. Unfortunately, the events of Spring Break 1989 have set an unfavorable tone for this year's activities, with unprecedented amounts of property damage and acts of violence haunting local authorities.

In an effort to reduce the amount of problems which seem to surface year after year, the Daytona Beach Police Department is planning on "unbiased, strict enforcement of traffic and criminal laws, as well as City Ordinances."

In a letter sent to local Colleges and Universities this month, Paul B. Crow, Chief of The Daytona Beach Police Department, stated that he is asking for "support and assistance in

informing your student population that public safety issues will receive the utmost attention during Spring Break 1990."

Therefore, students are encouraged to take note and comply with the following list of ordinances and statutes:

BEACH SAFETY

-The speed limit on the beach is 10 mph at all times.

-Driving in the water or soft sand on the ocean beach is prohibited.

-A person can not sit or lie on the beach in a driving or parking area, except while in a vehicle. Sitting or lying between parked vehicles is prohibited.

-Balls and frisbees can not be thrown across traffic lanes.

-Motorists must take precautions before parking or moving a vehicle to avoid injury to any person or property.

-Animals are not permitted at any time on the beach, except seeing-eye dogs

-Camping or sleeping overnight on the Atlantic Ocean Beach is prohibited.

-Driving on the beach at night is prohibited.

-Swimming within 150 feet of the Ocean Pier is prohibited.

-Changing tides place limitations on ocean beach parking. In order to avoid having your vehicle towed for safety reasons, always remain in the vicinity.

ORDINANCES

-The carrying or consuming of an open alcoholic beverage (including beer) is prohibited on the beach and City streets. This applies to pedestrians and occupants of motor vehicles.

-It is unlawful for any person under

the age of 21 years to possess alcoholic beverages or to misrepresent or misstate his or her age to buy alcoholic beverages.

-Hitchhiking is prohibited within the City limits of Daytona Beach.

-Littering is prohibited.

-Trespassing on Motel Property where you are not registered as a guest may result in your arrest.

Although students who have been at Embry-Riddle for a while may be familiar with the list above, incoming freshmen should be especially wary of the spring break scene, as it is not always what it is cracked up to be.

Daytona Beach Police must deal with numerous violent and drunk vacationers daily during break, and will understandably not tolerate any activity which, under normal circumstances, could be considered borderline.

Therefore, students are encouraged to use their best judgement.



photo by John Givens

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Housing Department plans renovations

by Ron Barber
Campus News Reporter

According to Sonia Taylor, the Director of Housing, students who live in campus housing are in for some major changes in the next twelve months because some major remodeling is going to be done.

First, for those that are living in Residents Hall 1 (RH-1), the Housing Department expects that building will be there for another twenty years, at which time it will then be replaced. The building was originally built for occupancy in 1968. Four years after Embry-Riddle moved to Daytona Beach from Miami. Since then the dormitory has seen many graduates come and go; most of the current students at Embry-Riddle today were not even born yet. Because of its long life span, that building was designated as the natural disaster shelter for the campus. The brick steam cleaning and chemical weather proofing that will be done in the next year will insure that this building will be here when the next generation begins to attend college.

On Tuesday, two weeks ago, the students of RH-1 received a 4:15 a.m. wake up call because the fire alarm went off. The students quickly evacuated the building according to the directions given by the resident advisors. The cause of the fire was an old vent fan motor that had burned out. Damage to the building was minimal, with an estimate of one thousand dollars. The fire alarm system itself received minor

On Tuesday, two weeks ago, the students of RH-1 received a 4:15 a.m. wake up call because the fire alarm went off...the cause of the fire was an old vent fan motor.

modifications through the use of plastic guards on the alarm handles and smoke detectors. The purpose of these guards is to prevent the system from accidentally being triggered by someone bumping into them.

Residents Hall Two was built in the early seventies, those that will live in Residents Hall Two in the Fall will notice their building will have received a face lift. The building is scheduled for repainting and reroofing in the up coming year. The sidewalks will also be resurfaced and extended.

At the end of last summer some of the rooms received brand new air-conditioning. Also, within last summer, sections of the dorm were also fortified by iron braces.

Apartment Complex 1 will receive only one major modification this year. Over the summer the pool located at that facility will be resurfaced just as the pool on campus was during the Christmas break. This dorm will also receive some of the standard scheduled maintenance this summer.

Apartment Complex 2 will also receive only one major modification this year, being that it is

scheduled for reroofing in the summer.

As far as the fabled new dorm goes, this is one possibility. Taylor put a price tag of several million dollars on the project. The quickest way to get that kind of money would be to sell both of the apartment complexes. These properties are both located on prime real estate and the selling of these properties could yield maximum value. As to where this facility would be located, no one knows for sure. There are several rumored sites, but they are just that, rumors. In any case, parking would be a definite factor that dictates where this new building would be put.

A new laundry facility is another project scheduled to be implemented. The location of the facility would be somewhere between R-H 1 and R-H 2. As for the money for the project, since the housing office receives no monetary assistance from the university (this is why students pay a housing fee instead of a lump tuition) they would have to wait until some form of assistance, either corporate or otherwise, to fund the project because what is left of the money received from the housing fees that is left over (after necessary expenditures) just does not cut it.



Disaster area...

Residence Hall One is designated as a shelter in the event of natural disaster. The building's condition, however, is below the standards set by the rest of Embry-Riddle's campus.

Computer lab faces troubles

by David Fekke
Diversions Editor

Students in the Computer lab are experiencing many different problems. Foremost among the problems is the school's IBM 4361 main frame.

The IBM 4361 has been referred to as a dinosaur by some of the students. While a microcomputer can compile a program in just micro seconds, the main frame can take up to 45 minutes to compile a program.

The more students who use the main frame, the more time it takes to compile a program. With the overcrowding in the computer lab, it is still being going at a slow rate of speed.

Another problem has been trying to receive lab instruction. More of their time is being spent trying to show students how to use the machines, instead of helping them with separate languages.

Even though the lab is open 24 hours a day, all the lab instructors go home at 10 p.m. Lecture instructors have been teaching the students the languages, but they are not required to teach the students how to use the machines. That is another reason for the delays.



Short Circuit...

Students find frustration in the lab.

Dave Rovka, a lab monitor, said the lab management "hired too many people. (They) think it takes a whole semester to train a lab monitor." As far as the software goes the lab only has Wordstar for their word processing. They also have two spreadsheets, being Lotus 1-2-3 and Enable.

"The lab needs a more modern mainframe," commented one student.

Sports scholarships considered

by Joseph A. Salerno
Campus News Reporter

The issue of instituting athletic tuition waivers to attract more talented athletes to Embry-Riddle was raised this past week by Dean of Student Affairs Robert Rockett. The subject has been met with varying degrees of approval and dissension by students whose tuition dollars will be the source of funding for the waivers.

A three stage path to approval must be taken by Dean Rockett that will see him seeking votes from the Faculty Departments, the Student Government Association, and the Employee Advisory Committee. Throughout the process Dean Rockett has tried to stress that the tuition waivers are just what they have been named and not scholarships, which he explained would denote money given for scholastic excellence.

"When considering the issue of tuition waivers we must decide if it is philosophically right to start such a practice," commented Dean Rockett. "We must think about the long term positive value." Embry-Riddle is the only school in the NAIA which

does not offer some sort of tuition assistance to its athletes.

"We need to be more competitive in our league," said Dean of Students Dr. Daniel J. Kelly. "Our team must be able to compete on a certain level, and tuition waivers will help us do that." Deans Rockett and Kelly both felt that the schools athletes should have the ability to represent their schools name.

There are several points of view on this subject. One of these comes from a student. SGA Representative Rozig Ali was quoted as saying, "Support of sports scholarships is a question that runs deeper than whether or not they are necessary for the success of the sports program. It is a question of priorities...for education and sports. Each dollar we pay goes towards something that benefits education. As long as an extra dollar spent on education can benefit us more than a dollar spent on sports scholarships, the dollars should be spent on education."

An advantage of tuition waivers for present athletes is that such a program would help them to maintain their spots on

the team as a result of lessening their workload. Many athletes currently on teams not only participate in a sport and go to school but also hold down jobs to assist in meeting tuition costs. Because of this, many athletes are forced to quit their sports activities to increase their study time. According to Dean Rockett, however, there will be no complete free rides for athletes. Tuition waivers will not cover room or board, only tuition.

Dean Rockett's hope is that with better athletes and winning teams school spirit will improve. Hopes for an improved social atmosphere were also expressed.

"The students money is going directly to them in the form of the entertainment and pride the tuition waivers will help bring about," said Dean Rockett.

When asked about Academic tuition waivers, Dean Rockett stated that academics and athletics are two separate entities, and must be dealt with apart from each other. At this point he is only dealing with athletics, but it is not an impossibility that academic waivers may be considered in the future.

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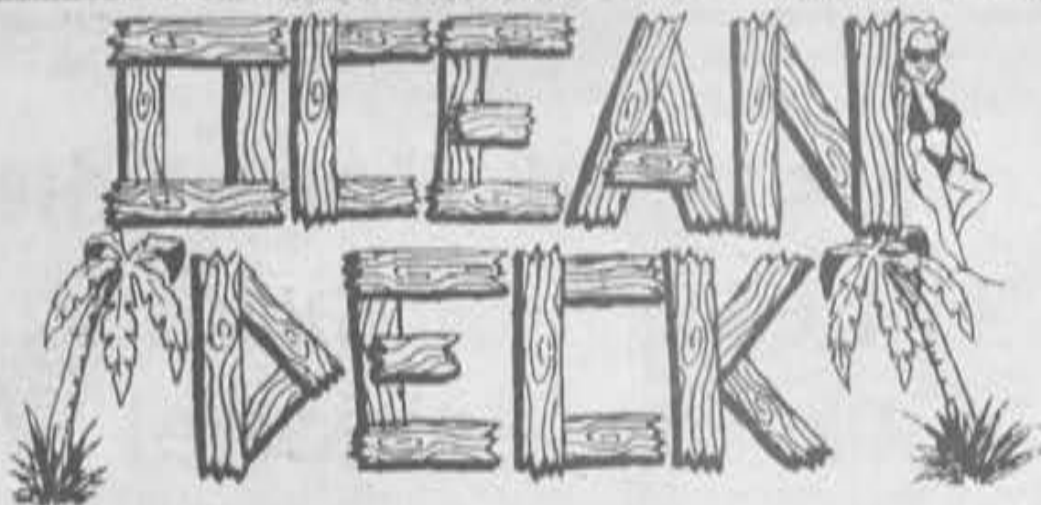
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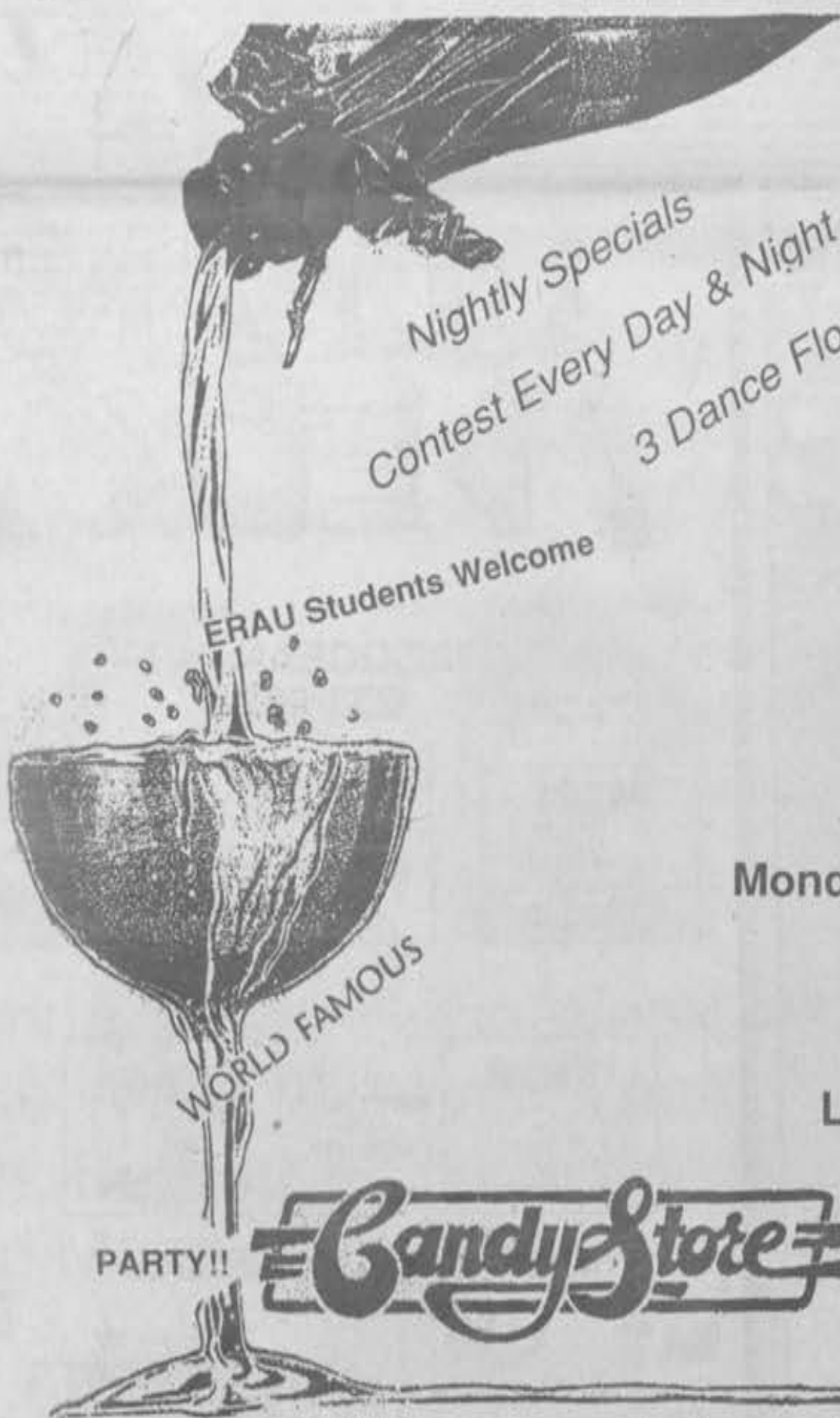
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Mullin and Papp have plan to bring enthusiasm to Seniors

Tim and John bring an unsurpassed level of enthusiasm to the Senior Class elections. Both are Resident Advisors and have known each other for three years. Working together as RAs has formed a special relationship between them, with John being the motivator and Tim being the organizer.

Other qualifications of the Senior Presidential candidate include that of an engineering project design leader. For the V.P. a willingness to "improve the school spirit..." as he feels "We're going to set the trend and carry it through to the underclassmen."

According to Tim "After living on campus so long, we have stayed in touch with University functions and activities." This is especially conducive for organizing the efforts of the Senior Class. "We would rather have the whole class involved in fund raising activities," he said.

"You only graduate once and including the whole Senior Class in activities makes raising money a more memorable feature for a great Senior year," says John.

Their slogan "What it takes to make a difference" says much for the team who has developed a great deal of

respect and admiration for Embry-Riddle. Remember as Tim says "Above all

we want the Senior Class to take pride in ERAU and what they've accomplished here."



Marcon and Forbes encourage involvement in school activities

What would you like Alice and Karen to do for the Senior Class, you ask? Pertaining to their candidacy they want "to encourage people to get involved. We want to make this semester memorable and enjoyable for the whole Senior Class," says Karen.

Friendships take time to develop and this team is certainly on the way. They have known each other on a friendly basis and also in a work environment. "We can depend on each other to the job done," comments Karen.

A wealth of experience is brought to the polls with Alice being an Orientation Team Leader and Karen also serving on the O-Team. Being a member of Omicron Delta Kappa can't hurt the potential Vice-president either. Getting a sports activity for females started on campus is no easy

task and that is just what Alice Marconi did at the beginning of Fall semester 1989. Thanks to her, Embry-Riddle now has a cheerleading squad which motivates the crowd at pep rallies and basketball games.

A job for the Senior Class President and her number one is "to provide the leadership and organization for the Senior Class. Decisions are made by the majority of the Senior Council" which both Alice and Karen realize.

Their main goal is to get everyone involved with fund raisers to provide money for the Senior Classes Activities. "We're not going to make false promises...we want to make this your most memorable semester yet!" says Alice and Karen.

"So, Hey Seniors get Involved!"

Robert Jalali and Caroline Ocasio ask for 'synergy for eternity'



"Unity, Synergy...For Eternity" rings loud and clear for this duo of Senior Class Candidates. "Our most important feeling is to bring the Senior Class together to build a bond that will keep us in touch wherever we may go," comments Rob.

Commitment and dedication is the foundation for these two election bound individuals. Rob has served as an O-Team Leader for a year and is currently serving as an SGA Representative for Air Science. Caroline has been a member of both the "Future Professional Women in Aviation" and the "Embry-Riddle Aerospace Society" for a year each. She is also a member of Alpha Kappa Omicron which is a math and science association for gifted students. Her dedication to community service placed her in charge of the Hurricane Hugo relief efforts here at school too.

Though acting as individuals they do not. They have known each other for three years and have worked on various projects together. One advantage they bring to the podium is

they know many foreign students here at ERAU and they can bring these groups together to have a good time with everyone at graduation and this spring semester.

Trying to get everybody involved, so that everyone will be satisfied and enjoy their remaining days at Embry-Riddle is important to Rob. "We want the Senior Class to have such a good time this last semester that it will wipe away any bad experience they may have and leave them with a good feeling of the University and their class," asserts the promising Presidential candidate.

Goals of this twosome are to make a directory for the Senior Class of '90 to allow everyone to stay in touch afterwards. "We would like to suggest that the graduation party be made more formal and special than in the past. The Senior Class has been working towards this time for years and they deserve an unforgettable moment," comments Caroline. Continuing she says "This is not the end, it's just the beginning of our life long journey together."



Vergas and DiRienzo are a force to be reckoned with

Carlos and Mark are a force to be reckoned with on elections day this Wednesday. "The Wright Choice" in honor of the founders of heavier-than-air transportation becomes these two hope-to-be leaders.

Knowledge of the opinions of the Senior Class are important to this running team. "We know so many people around campus, that they will be able to give their inputs readily and will be verbally informed before decisions are made," claims Mark.

Serving as President of AAAE has helped Carlos learn the meaning of leadership and responsibility. He is also active in student activities around campus. Mark has been a member of AAAE, too, and is involved in intramural sports here at ERAU. Both of them have been past leaders of the Quality Assurance Intern Program for Eastern Airlines at Daytona Beach Regional Airport.

Having the force of a friendship

for the last three and a half years has taught each to work together and this venture is no different. "The President and Vice-President make the responsibilities important to the job if they want to," comments Mark.

In talking with Laurie Ranfos, they discovered the budget was limited, and they wanted that to change. "We are down to earth and we will do as much as we can to get the students involved. Last year the party was rather expensive, we want to limit the individual cost for each student. Through using fund raising that is more exciting like a volleyball tournament," asserts the potential Vice-President.

"We want students to enjoy the activities because they want to and not because they have to. This should be accomplished through more entertaining activities and increased knowledge of the Senior Class's opinions..." says Mark.



Raker and Radosta run as Senior candidates

What do transfer students do for their Senior Class? They run as Senior Class Candidates for President and Vice-President. When Shawn asked Nina to be his V.P. she replied "I accepted because I think I can do a good job for the Senior Class, and I want

this semester to be the most memorable for everyone."

Shawn picked her since "She is very intelligent and very well organized." Their friendship has evolved over the last year to a point where according to Nina "We're both

enthusiastic about the activities of the Senior Class. I'm a promoter and organizer. Our primary objective at the end of the semester is graduation, but we want to have fun a long the way."

The qualifications each brings with them is substantial. Shawn was treasurer of the Wind Surfing Team for one year, and he initiated an Intern Program with Delta Airlines for the school. For his involvement in AAAE he won the standing Ovation Award. Nina has made the Dean's List the last two and a half years here at Riddle and wants to make this semester her best yet. She says "What I've done in the past is not as important as what I want to do in the future for the Senior Class."

This team of the polls wants to try to lessen the price of the party for the Senior Class through fund raisers. "We have some unique fund raising ideas which will make the class's involvement fun and exciting," expresses Shawn.

They would also like to see the Senior Class project re-instated, so that "our class will be remembered," proclaims Nina.

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Flight Team inducts new members

by Michelle M. Boullianne
Clubs Writer

The Flight Team introduced about fifteen prospective members to the club and competing aspects of the team last week. They were asked to attend further general meetings and competition practices to see how they perform as well as their motivation. Within approximately four weeks the prospective members will be informed of their status on the team.

A team sponsored AOPA Stall/Spin Accident Safety Seminar will be held on February 13 at 7:00 pm in G109 and G112.

On February 18, the team will be working with Southern Catering during the Daytona 500 to raise money for the treasury. Kirk Ladeau is organizing a Safety Seminar with Dr. Reinhart later this semester. Dave Farman will be organizing a trip to Jacksonville Center to tour their facilities. There is also a possibility of touring the individual airline facilities at Orlando.

The Safety Briefing was given by Safety Officer Jay Maiato on bird strikes. A branch of the U.S. Air Force called BASH, for Bird Air Strike Hazard, is the only organization that keeps records of bird strikes. They also have done testing for the effects of different sized birds on different sized aircraft and engines. The most notable accident caused by a bird strike occurred in 1987 when a 16 pound pelican was sucked into the engine of a B-1B. This resulted in the aircraft crashing killing one crew member and destroying the \$250 million B-1B. Concerning

civilian aircraft, bird strikes are not considered a reportable incident by the FAA. Below 3,000 feet is where 96 percent of bird strikes occur, but there have been some up to 37,000 feet. Some action can be taken for prevention, such as pilots need to be more alert during the day when birds are most active; familiarize with bird fly ways during migratory periods as well as times of migration; be aware when flying over wildlife refuges and bird sanctuaries; and turning on windshield heat helps stop shattering when hit. If a bird is in your flight path it may turn or dive, but if it seems like the bird is about to strike the best thing to do is pull up so the bird will hit the prop, not the windshield. If a bird does hit and shatter the windshield the first thing the pilot must do is to gain control of the aircraft. Once this is achieved the pilot should check the controls, check the instruments, and communicate to a ground station. When the windshield is shattered the streamline of the aircraft is affected and acts like a bag catching air. The best thing to do in this situation is to open other windows or have passengers kick out the rear windows, this will help air flow easier about the aircraft. Birds may also strike other parts of the aircraft, that when damaged, greatly effect the performance. Keep a look out for birds when flying because they can be hard to distinguish and they can sneak up on you too. Beware of birds - they are nice to look at but not all over your windshield or yourself.

A reminder to all: Tom Klemmer needs your dues, so please pay him. And Scott Tarves needs a copy of everyone's schedule.

A winning team...

New Flight Team members will have the honor of having been inducted into an established team of winners.

Sigma Pi fields sports teams

by Joe Biancalana
Clubs Writer

The thing that gets me the most has to be opening the cabinets and finding zero clean dishes. C'mon Tom and Gordo, you gotta clean your dishes!

We have race week coming up shortly. Good job Jim for getting us the infield pit area to cater. If I could only remember what goes in the condiments dish. I guess I should have gone to the orientation.

Evan's got the softball team shagging some balls while Sean perfects his around-the-back-under-the-leg-lay-up, on the hoops scene. The

softball team does look very promising this semester as well as the basketball team.

Both forces will dominate their respective fields.

As Gordo's search for the ultimate female continues, we'd like to congratulate Jose for bagging two straight weeks of goof of the week. His post party cleaning of showers won him a second week. Go Jose, we'll be watching you. Can you sweep the month?

To Joel and Bob, your excellent display of brotherhood has earned you both brother of the week. Your

outstanding contribution to Jan. 26's Luau party was very much appreciated by us all.

The example you have set is just proof that the high standards of integrity, teamwork, and brotherhood continue still in Sigma Pi. Congratulations, the first round is on us.

Thanks "Forty-niners", 99 cent "Quarter Pounders" for everyone. Boris and Weathers have already mastered the new video games. But if we were to bring back "Golden Axe" could Sean do it again with one quarter? I don't know.

Eagle Battalion will host annual Dining-Out at Daytona Hilton

Staff Writer

With the new chain of command now firmly established, the Eagle Battalion is ready for the Spring 1990 semester. Many interesting events are up and coming for the Army cadets. One event which had already begun that will continue throughout the semester is Airborne/Air Assault physical training (PT). Since Feb. 5, highly motivated cadets have been pulling themselves out of their warm beds at 5:30 am to face over an hour of push-ups, sit-ups, and long runs. They do this because they want to compete for the chance to parachute from airplanes this summer at Ft. Benning, GA. These jumps will be completed at the end of the physically strenuous, three week long Airborne School.

Another event that the Army cadets look forward to is

the annual Dining-Out. On Saturday, 10 Feb. 1990, the Eagle Battalion cadets will be demonstrating their social graces and table manners at the Daytona Hilton at this year's Dining-Out.

A tradition which originated with eighteenth century British officers' dinners, the Dining-Out is eagerly anticipated by both cadre and cadets. The guest speaker this year will be Major General Spigelmir, who is the commanding officer of the Infantry School at Ft. Benning. General Spigelmir is Special Forces and Ranger qualified, with tours of duty in Germany and Vietnam. He was also assigned to various positions in the Pentagon prior to his appointment as the Chief of Infantry.

Airborne/Air Assault PT and the Dining-Out are just two of many Army ROTC happenings this semester.

Chess Club activates once again

by Ben Brennan
Clubs Writer

The Embry-Riddle Chess Club would like to welcome back its members for the new semester. Many Chess Club activities are planned for the new year. Regularly featured at our weekly meetings are ladder tournament play, speed chess competitions and a chance to improve your chess-playing strategy at other chess

variations such as Siamese Chess and Quadrochess.

Tentatively scheduled is the reformation of the ERAU Chess Team to compete on an inter-collegiate level and against other local Chess organizations. If you are interested in improving your USCF rating, or just play very well, show up at our next scheduled meeting for details.

Meetings will be held every Tues-

day at 1830 in Flight Deck meeting room. Any persons interested in playing chess are invited to attend. Experienced players are welcome to join in on the staunch competition available and beginners are encouraged to take advantage of the individualized instruction that our club has to offer. For further information, contact the Student Activities office or call Ben Brennan at 257-3905.



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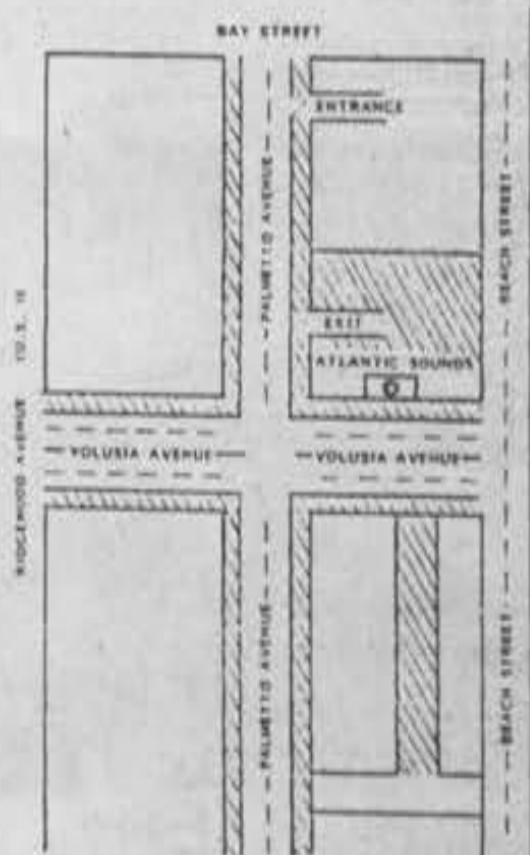
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SLACKS THAT PILOTS FIND COMFORT IN

Cadet Wing Commander continues responsibilities into new semester

by Ian Frederick
Clubs Writer

Did you ever wonder what it's like to be the AFROTC cadet wing commander? The cadet wing commander shares the responsibility of maintaining the conduct, appearance, and training of all AFROTC cadets at ERAU. The cadet wing commander is also the only cadet who deals with all the active duty military staff members in the detachment.

C/Col. Gregg Zimmerman was our cadet wing commander for the Fall 89 semester. He found that out in April of 89. Instantaneously, he was responsible for 500 cadets, \$15,000, and the reputation of the number one detachment in the nation. For C/Col. Zimmerman to take on this demanding position, he stayed late after the Spring semester and returned early from his summer vacation to select his staff and receive information concerning the Fall semester.

C/Col. Zimmerman was quoted as saying "It was dif-

ficult at times to let everyone know what, when, where, and how everything operated."

To keep his staff informed, he held weekly wing staff meetings. At these meetings he received feedback from his staff and gave them information concerning future events and deadlines. He was cadet wing commander during our first annual military ball which was attended by over 650 people including cadets, detachment staff and guests. In preparing for the military ball, he and his staff had to contract the "Marriott" hotel ballroom, catering services, and live entertainment. He also had a major role in planning our semi-annual Fall 89 Pass-in-Review and change-of-command ceremony.

When C/Col. Gregg Zimmerman was asked if he would be wing commander again, he said "Yes, the experiences gained and the lessons learned are unequalled by any academic class. I've been fortunate to experience many real-life situations that will prepare me for my future career."



At ease... Cadets rest during inspection by flight commanders.

Sigma Chi's raise funds for the fun

by Robert Pacheco
Clubs Writer

Well another week in the lives of the Sigs has passed. Rush went well under the guidance of Jaime Mercado and our new Magister (pledgemaster) James Ahrens.

For those of you who were lucky and received bids, we wish you success this semester as you advance in knowledge towards the lifetime brotherhood of Sigma Chi.

For those of you Brothers who have requested a little comedy on my part, I remind you of the idea presented in chapter this past Monday. The release of air molecules which were trapped in the body of one Brother are most likely some of the same molecules which were trapped in the body of another which were in turn simply recycled from another, and so on etc.

On to more serious matters. House construction is moving along quite nicely, at last we are down to the dreaded "PUNCHLIST" (Dutz). And a hardy good cheer was had by all who participated in the car wash, raising over \$300 (after motivational expenses) for the house.

Well my Friends, Brothers and Students I thank you for lending me your ears.

Veterans Club welcomes new members to the organization

by Mark Coleman
Clubs Writer

The Spring Welcome Aboard Party was another big success. As usual, there was plenty of food and drinks on hand for everyone. Everything went smoothly after we found a place to park. The only major casualty of the night was the dining room chair and

we all know who did that. We were happy to see the large turnout of new members. We hope everyone had a good time and will continue to participate in club activities.

Now that the semester is underway it's time to get down to the business of earning funds for our future activities. There will be a meeting Feb. 9 to discuss schedules for working the races. If you are interested in participating please plan to attend this meeting.

Once again, welcome to all new members and we hope to see everyone at the next meeting. Watch for meeting notices posted on our trophy case in the Student Center.

Kappa Alpha Psi and B.O.W. observe Black History Month

by Derek Johnson
Clubs Writer

Events are underway for Black History Month. Brothers of the Wind and Kappa Alpha Psi have scheduled a number of activities for students to take part in.

Every week for the month of February there will be a letter in your mailbox on a historic African-American. A booth will be set up in the Student Center to feature a historic African-American.

This booth shall prove to be very satisfying to your curiosity. On Friday Feb. 9 there will be a history show for children.

Prizes will be given to the child who guesses the most characters and to the child who guesses second and

third most characters. Look for advertisements and see how many characters you can identify.



Martin Luther King Jr.

"The Ninety-Nines are back"

First meeting will be held February 8th at 7p.m. in student center conference room.

Interested persons inquire at Student Activities Office.

CLUBS POLICY

- All articles must either be type-written, double-spaced or on disk (unformatted in Word Star or Microsoft Word).
- Deadlines for submission of all club material is Wed., 5 p.m., one week prior to publication.
- Photos may be submitted with club articles.
- All submitted material becomes the property of the Avion with the exception of disks.
- The Avion reserves the right to edit all submitted copy.
- For more information, stop by or call the Avion office at (904) 239-6049.

Brothers attend Seaboard Conclave at Univ. of Miami

by Andrew Soares
Clubs Writer

Congratulations to all the new Associate Members. Good luck on your quest towards the Brotherhood. To Charlie, Sonny, Keith and Larry, encourage the new Associates by showing unity, involvement and motivation towards becoming a great A.M. class.

Thanks to all the Brothers for making Spring Rush '90 successful. Hope everyone likes the t-shirts, Fall Rush '90 t-shirts will be out at the end of the semester. This week's fun fact is: Skcus ltheaded.

Brothers Andrew Soares, Bentley Moser, Eric Shannon, Chip Fritz, Tim Kincannon, Mark Rhodes, Sean O'Keefe and Fred Kappel all attended

Thanks to all the Brothers for making Spring Rush '90 successful.

the Seaboard Conclave this past weekend down at the Univ. of Miami. There they attended leadership workshops, expanded their knowledge about Lambda Chi Alpha and improved Chapter relations.

We would like to thank Brother Chip Fritz for breaking the World Land Speed Record on our return trip in 2 hours 13 minutes and 34 seconds which was faster than any commercial flight available. Congratulations Chip!

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Eagles whip Florida Bible for first win



Photo by Michael Gomm

Finally...

Coach Steve Ridder kept his word for a win.

by John Strelecky
Sports Writer

After suffering forty straight losses dating back to last year, the Embry-Riddle basketball team posted their first ever victory by crushing Florida Bible College Wednesday night by a score of 108-28.

The Eagles statistics for the game were extremely impressive. They had seven

players hit double figures and everyone who suited-up for the game scored. The team as a whole scored 60 points in the first half and shot a season high 66% from the floor.

The Eagles didn't waste any time getting their offense going as they run the fast break right from the opening tip off. Two free throws by Carlos Rodriguez opened up the scoring for Embry-Riddle and then for the next five minutes it was the Mark Ingemi show. He scored the next ten points of the game hitting from the 3 point range twice and on two driving layups. His final stats for the game were 14 points on 6 for 6 shooting and 4 assists all in a span of 5 minutes. Unfortunately, on the last shot he attempted he came down on his ankle of one of his opponents. X-rays have in-

dicated that his ankle is fractured and he will be out for the rest of the season. A tough blow both for Mark and for the team as well.

At 11:31 left in the half with the Eagles leading 26 to 5, coach Ridder did a full lineup switch, putting in five different players. The new team proved just as effective, as Richie Helton hit 2 baskets for 4 of his 11 points to give the Eagles a 34 to 9 lead with just over 9 minutes left in the half. Rob McCabe was a powerful inside force throughout the game. He was able to take the ball strong to the hoop and finish with a game high 18 points on 9 of 11 shootings, 13 rebounds, and two blocked shots. As the half wound down the Eagles went into the locker room with an impressive 60 to 16 lead.

The second half opened with ERAU trying to slow the pace down in an attempt to not run up the score, but even with a slowed down offense their shooting was highly accurate and they scored 48 points in the second half. The guard combination of Bill Morrow and George Bowles proved to be quite a force as they were a combined 12 for 18 from the field for 25 points. Bowles undoubtedly took the

The team as a whole scored 60 points in the first half and shot a season high 66%.

ball right at his opponents and handed out 9 assists to go with his scoring, and Morrow was deadly from the outside hitting on jumpers from

outside and just inside the 3 point line.

The game was an exciting display of enthusiasm by both the players and the fans. Despite the overwhelming margin of victory, the crowd cheered on the team every time they scored a basket. One of the game's biggest thrills was in the second half. When the score for ERAU hit about 85 points the fans started chanting for the team to break the century mark in points scored, and when Richie Helton hit a lay up to mark the Eagles' 100th and 100 first points of the game, the DBCC gym erupted with cheers from both the fans and the players. As the final seconds ticked off the clock, the cheerleaders and the fans rushed on to the floor to congratulate the players on their first of many victories.



Safe...

The Embry-Riddle Eagles will play an opening day double-header on Saturday, February 10 against Warner Southern.

Papke leads Eagle Nine over Wildcats

by Bill Miller
Sports Writer

Riddle: What is as American as apple pie and is played on a diamond? Correct, baseball! Abner Doubleday knew that he was on to something when he created this masterful game in the 19th century. Baseball packs everything into one game: powerful displays, defensive gems, strategic moves and thrilling suspense. All of the above was present at last Saturday's game that pitted the Eagles against Bethune Cookman.

Powerful Displays

One of the most exciting aspects of baseball is that it is always packed with powerful performances. The Eagles had their share of stellar performances last Saturday. Highlighted by the aggressive pitching of tri-captain Chuck Smith and relief pitcher Greg Phillips, and complemented by the bats of tri-captain Vince Papke and John Phillips, Eagles out muscled their Wildcat opponents. Chuck Smith started the game for the Eagles and lasted six innings before being relieved by Greg Phillips.

Both pitchers had command of their pitches, evidenced by the fact that they had more strike outs than walks. This is an accomplishment for the Eagles since last year the pitching staff was plagued by free passes.

Vince Papke's hit started off the offense to an important two run first inning. By far the greatest bit of the game came in the third inning when John Phillips launched the ball over the left-field fence to give the Eagles the confidence that it needed to

win.

Defensive Gems

Sometimes a good defensive team can beat a good offensive team. The Eagles combined their offensive weaponry with defensive excellence. Once again tri-captain Vince Papke, playing center field, provided a defensive gem by tracking down a blast that seemed like a homerun. However, Papke battled the sun and made the catch at the warning track.

The game's best play came from Claude Archambault in the tense ninth inning. Claude, playing centerfield after relief pitcher Greg Phillips entered the game, tracked down a shot which seemed destined to drop in and give the Wildcats the tying run. Claude, realizing that he could not let the efforts of his team go to waste, got on his horse and made a superb over the shoulder grab. If CNN or ESPN would have been in attendance at the game, they probably would have made Claude's play a unanimous play of the day.

Strategic Moves

One aspect of baseball which is usually overlooked is the strategy which is involved. When do you attempt to steal a base? When do you pull your starting pitcher? These are questions which must be answered during the game by Head Coach John Filor. Coach Filor was happy with the way his team looked in practices, but was tentative about today's game because of the "lack of depth of my pitching staff". Fortunately for Coach Filor he only had to go to the bull pen once. In the sixth inning it was becoming apparent that starting pitcher Chuck

Smith was tired and that it was time for the coach to make a change. However, the coach made a double switch when he brought in relief pitcher Greg Phillips and moved Vince Papke to right and put Claude Archambault in center. One can only speculate if coach Filor knew that by putting Claude in centerfield would eventually save the game, but it turned out to be a great decision nonetheless as Greg Phillip's pitching and Claude's heroics proved enough to take the bite out of the Wildcats.

Suspense

Many occasions during the game the baseball team kept the fans on the edge of their seats. The suspense came to a climax in the ninth inning when Claude made his incredible catch. The few fans jumped to their feet when the ball left the Wildcat bat, and then erupted with emotion when Claude made the grab. All of Daytona could hear the fans cheer when the final out was achieved and victory belonged to Embry-Riddle.

Overall, the game was an impressive performance by the NAIA Eagles. Once again they proved that they can compete with and beat teams from the NCAA Div I. But victory can be a leave a hollow feeling in your stomach if there is not anyone to share it with. The people that the Eagles want to share their future victories with is the student body and faculty of Embry-Riddle. As coach Filor put it "My team has great character, and we really desire the support of the ERAU community on our Opening Day double header".

Soccer club to kick off new season

by Mathew Verghese
Sports Writer

The history of soccer at ERAU has been one that has followed a roller coaster ride. The soccer program has experienced both ups and downs while trying to get itself established. Except for activity at the intramural level, competition at the intercollegiate level would have come to a demise if it was not for Tom Fisher, the school's first Athletic director. Growing interest among the student population and faculty in various sports, prompted the university to hire his position, in the fall of 1988.

In the Spring of 1989, with the help of Mr. Fisher, the soccer club entered a team into the U-23 Olympic Developmental League of Florida. For a team entering competition at a high level for the first time, the club played startlingly well, finishing the season with a record of 3-3.

In the fall of 1989, following in the footsteps of basketball and baseball, the university implemented a varsity program for soccer as well. Those interested in playing on the varsity team were instructed to attend double session practices, which were held two weeks prior to the first day of class, (Aug. 14th - Aug. 30th). Two weeks of intense practice were held with coach Fisher at the helm. Then the first varsity soccer team organized in the modern day history of ERAU was ready to play

"We did much better than we expected for a first year team."

Brendan Burnett

their first game on Sunday, Sept. 3rd. The match was played against Augusta College, an NCAA division I team from Augusta, Georgia. ERAU's home field, at the Sperling Sports Complex, in Deland was the site of the game. It was a hard fought game. Although the Eagles played extremely well, in the end they succumbed to a more experienced team. Under the leadership of senior tri-captains, Max Anthony, Jason Mikulak and John Rathman the team played well, gaining valuable experience, while steadily improving throughout the season.

Through the course of the season, the Eagles played against some of the premiere competition in the southeastern part of the U.S. The starting 11 consisted mostly of veteran club players, with constant support provided from their freshman teammates. Freshman goal-keeper, Rui Pereira fared brilliantly with a record number of saves. Although the Eagles ended the season with a record of 3-11, they played very well for an up-and-coming team.

As Sophomore defender Brendan Burnett stated, "We did much better than we expected for a first year team". Come fall of '90, the soccer team will once again enter a very competitive season. When asked how his team fared in his opinion, and what he foresees in the future for the soccer program, coach Fisher stated, "We are trying to be a member of one of the toughest, if not the toughest, district of the NAIA division in the country. We are playing against recruited players, which we certainly do not have. We could have won a few more games, but we did our best with the resources we had. The team would like to thank their trainer, Marsha Thorpe for helping out with injuries and for providing moral support throughout the season."

This Spring, the soccer club will re-enter the U-23 Olympic Developmental League. The club offers a chance for those interested in playing soccer, who otherwise would not be able to play in the Fall, due to NAIA, eligibility requirements. It is open to all students, faculty and staff. They will organize trips to go watch the U.S. National team and other International teams in competition around Florida. The ERAU soccer club urges support from the students, staff and faculty. The first regular league game for the club is tentatively scheduled for Feb 17th. Practice for the Spring session has already begun.

Associated Press Top 25 College Basketball Teams

1. Missouri
2. Kansas
3. Arkansas
4. Duke
5. Georgetown
6. Syracuse
7. Michigan
8. Connecticut
9. UNLV
10. Purdue
11. LSU
12. Illinois
13. Oklahoma
14. La Salle
15. Louisville
16. Georgia Tech
17. Minnesota
18. Oregon State
19. UCLA
20. Loyola Marymount
21. Xavier, Ohio
22. Arizona
23. Michigan
24. St. Johns
25. Indiana



Sweet revenge...

The ERAU lacrosse club will play a rematch against the University of Florida Gators this weekend in Gainesville.

Eagle Lacrosse team battles Gators to draw

by Michael Gomm
Sports Editor

The Embry-Riddle Lacrosse Club battled darkness and a 4-2 deficit to tie the University of Florida Gators 7-7 last Friday afternoon.

The Eagles played hard and narrowed the score to 5-4 by the end of the first half with an aggressive offensive scheme. Jason Whittaker led the Eagle offense with four goals, following him was Jim "Boog" Powell with two goals, and Scott Clark added one more for the Eagles.

As reflected by the score, the game was a great defensive battle as well. Eagle defenseman Darren Page and Gelo Stillfried played the Gators close and tough to allow the ERAU to climb back into the game.

As the game progressed the sky became darker and the Eagles played tougher. The game quickly turned into one of the most intense athletic con-

tests seen at Riddle in a long while. The emotion could be heard as the hits became harder and the fans cheered louder. Eagle goalie Brian McCarthy, who had an assist in the game, made an excellent save in the third quarter and summed up his excitement by exclaiming, "God I love this game!"

The game was eventually called because of darkness much to the relief of the Gators who seemed destined to be overwhelmed by the Eagle comeback.

Darren Page

The Lacrosse Club will play the Gators again this

weekend at the University of Florida and they are trying to arrange for buses to take fans to the game. Club President Darren Page had these comments after the game, "The amount of people on the sidelines cheering for us was great; it helped get us pumped up." When asked about the rematch, Page said, "Revenge is a dish best served cold."

"Revenge is a dish best served cold."

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Bucsh Clash/ARCA 200	Feb. 11
Twin 125-Mile Qualifiers	Feb. 15
Budwieser IROC XIV/Florida 200	Feb. 16
Goody's 300	Feb. 17
Daytona 500	Feb. 18
Pepsi 400	July 7

Tests

(continued from page A1)

The next open forum will be held on February 15th at 7:30. The exact location was not available at press time. Notices will be posted around the campus including the engineering, avionics and air/studies buildings.

The next meeting will feature some faculty members including Paul McDuffee who will shed more light on the specifics.

These open forums will allow the student to shape the program and formulate many of the answers to the policy questions raised.

Jaguar

(continued from page A1)

pole for the GTP/Lights category with a speed of 115.835 MPH. The GTU pole position was occupied by the Nissan 240SX of Nissan Motorsports, driven by Bob Leitzinger, at a speed of 107.471 MPH.

A team that was running surprisingly well was the Toyota Motorsports team. The Eagle is new to the twenty four hour race, last year they ran the group C car and didn't bring the Eagle out until after Daytona. Drake Olson, one of the drivers on the Gurney Eagle had this to say about the car, "I think

we are running a bit more power in the car this year than we did in the group C car last year, which makes it easier on me, as a driver.

The Eagle is running in its low downforce configuration and it still has more downforce than the group C car. The Eagle seems to have less understeer than the old car and we are getting through the infield quicker than we did in the old car. The power feels about the same, we have the same power plant as last year." When asked about the new Nissan team Olsen commented, "I don't think the Busby team will be as fast as the other team due to the new team running on BP Goodrich tires, the tires just aren't

as good as the Goodyears, so unless they make some improvements in their tires, they probably won't be as dominant."

Another team that was running surprisingly well up until a gearbox failure in the eleventh hour was the Dauer Racing Porsche 962C, driven by Al Unser Jr., Robby Unser, and Raul Boesel. Al Unser Jr. is normally an Indy car driver and had these comments about driving at Daytona, "I like Daytona, I've enjoyed driving here. I enjoy driving the oval, and at night this is easier to drive than Sebring or Le Mans because it has alot of outside light."

Unfortunately, the Dauer Porsche

principal investigators. The trays are then taken off at a rate of about four a day where they are sent to their investigators. To be sure that none of the experiments are damaged in handling, it will take quite a while to get all the experiments back to their owners.

The flight of STS-32 was the longest Space Shuttle mission to date and was used to test the ability of astronauts and the shuttle in lengthy stays in space. Another task the crew completed was the deployment of a Navy communication satellite prior to retrieving LDEF. The next shuttle mission is set for Feb. 22.

team dropped out at 5:30 a.m. with a blown engine. In the end only five GTP cars finished, the two Jaguars in first and second, and the Wynn Porsche finished sixth. The Rousch Racing Mercury Cougar of Gordon/Fish/St. James finished fifth overall and first in the GTO category with the RX-7 of Downing/Johnson/O'Steen/Halsmer finished seventh overall and second in GTO. The Eric Scientific Racing Mazda Argo of Jellinek Jr./Brooms/Greenfield finished ninth overall and first in GTP/Lights class.

The Peter Uria Racing Mazda RX-7 of Uria/Dotson/Pace/Scott came in twelfth overall and first in GTU class.

LDEF

(continued from page A1)

space for over ten years and will be continuously blasted by space debris and micrometeoroids. It will also have to endure the harsh radiation and other cosmic rays of space. LDEF's long stay in space will give scientists an idea of the amount of protection needed for its long life. LDEF came back to KSC aboard Columbia and was taken out of the payload bay two weeks ago. From there it was put into a canister and transported to a clean room at KSC where it was closely looked at by

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Kennedy Space Center to honor all astronauts who lost their lives in connection with the space program. And to further the dreams of young Americans with an educational fund for the pursuits of teaching, engineering, and science.

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We'll always remember. So will you. Let's show the world with a living testimony to those who were not afraid to reach for the stars. More than ever, we Americans need to show our support for our valiant space pioneers. NASA will use the fund. If it's up to us to provide the memorial.

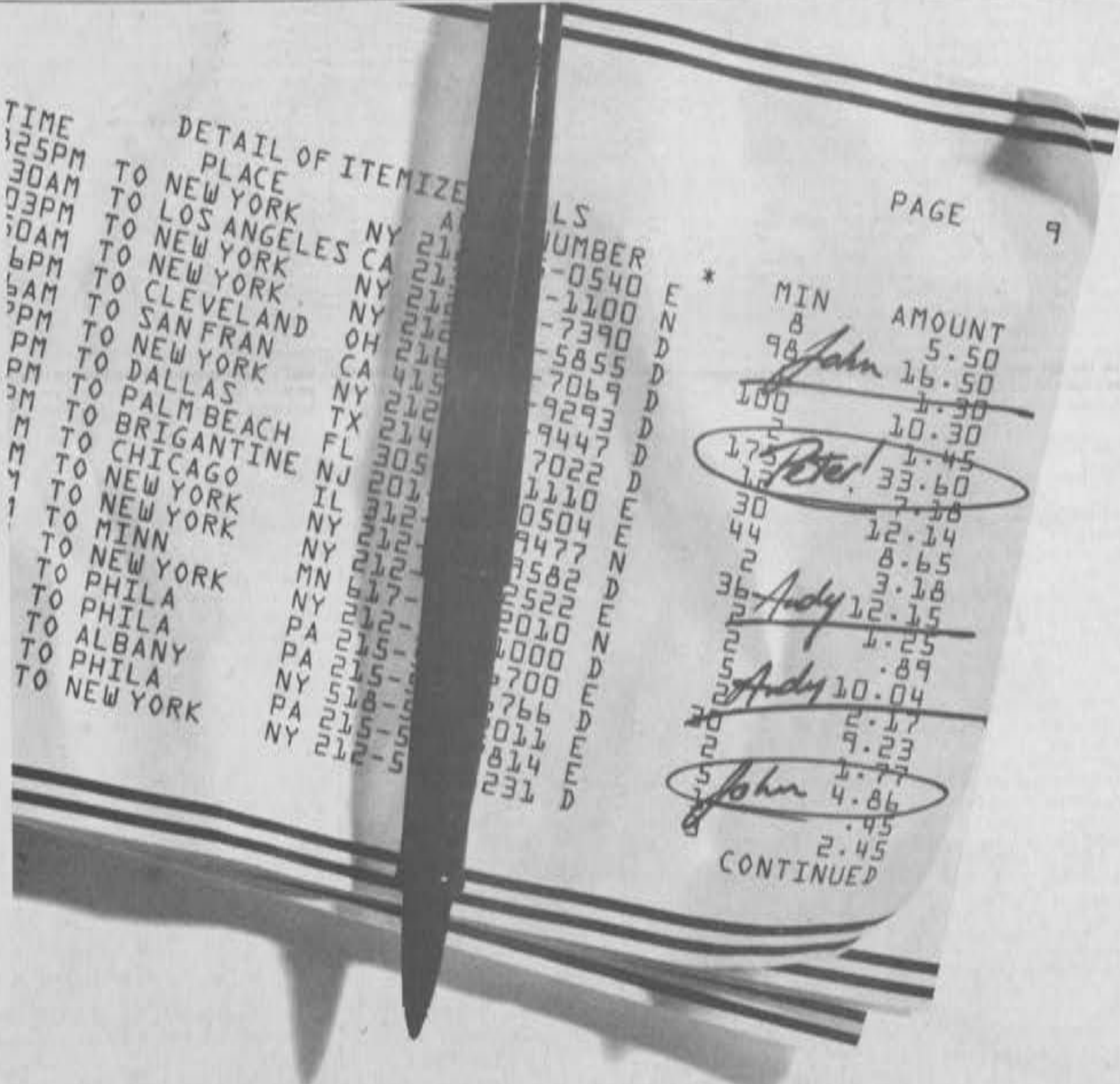
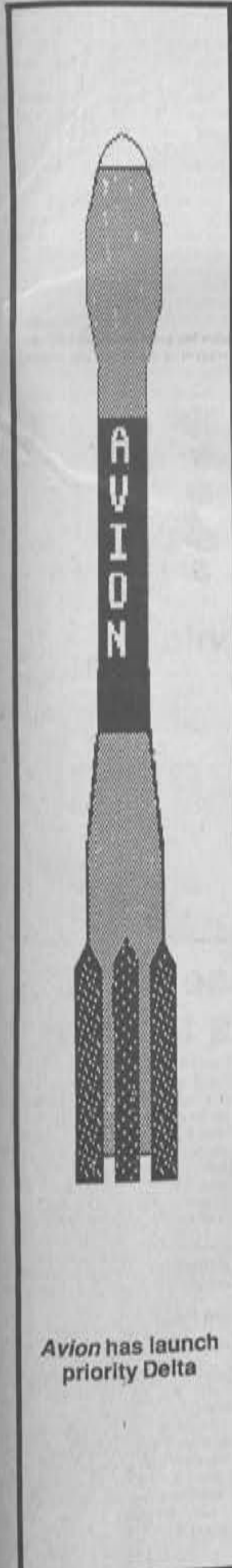
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