

9-28-1988

Avion 1988-09-28

Embry-Riddle Aeronautical University

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Intercollegiate Basketball schedule announced.
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AVION

An Award-Winning College Newspaper



Volume 60, Issue 2

Embry-Riddle Aeronautical University, Daytona Beach, Florida

September 28, 1988

Assessment Program initiated at Riddle

by Phyllis A. Salmons

Studying the outcome of college programs has become a national movement, its purpose being to improve the quality of academic and student life. Embry-Riddle is in the process of researching, planning and implementing an assessment program for the entire University, taking an initial inventory of where we stand, our philosophical goals, and where we want to be.

The purpose of outcomes assessment is the improvement of student learning. Universities across the nation are deeply involved in assessment programs, examining the outcomes of academic course work, student development, and, in some cases, alumni follow-up. Educators want to be assured that they are moving in a positive direction and that resources are being used well. Assessment is a tool to that end.

The Southern Association of Colleges and Schools has also updated the criteria for accreditation to include assessment studies.

The appropriate vehicle for assessment depends upon what is to be assessed. Assessment of cognitive learning is generally divided among three areas: (1) entrance, (2) general education, and (3) field of specialization.

Techniques utilized for the assessment of cognitive learning include standardized tests, campus designed comprehensive examinations, licensure examinations, and senior projects.

Attitudinal development can be assessed utilizing standardized surveys or locally developed instruments. Critical points to examine include entrance, during matriculation, exit from the institution, program completion, alumni, and employer assessment. Multiple measures of assessment should be employed whenever feasible.

Assessment can serve many purposes from institutional effectiveness to program effectiveness to improving individual learning. Utilization of results is an integral part of the process. Consequently, feedback should provide the impetus for program improvement and institutional quality enhancement.

The Office for Institutional Research at ERAU is in the process of determining student profiles of incoming students, current students, and those of students who leave the University prior to graduating. This is the key ingredient in analyzing the current status of the University. From this information, administrators can better judge the need for entry level requirements.

Embry-Riddle has appointed a campus steering committee which is to work through the Faculty Senate, and departmental committees to examine current situations and define processes for improvement.

See ASSESSMENT, page 20



On Target...

A member of ERAU's skydiving team touches down on the multi-purpose field during a recent demonstration jump on Clubs and Organizations Day.

Photo by Dan Morgan

Shuttle flight scheduled for early morning launch

Associated Press

Workers at Cape Kennedy are working around the clock as NASA prepares for *Discovery* to lift off with five astronauts on a flight the space agency hopes will restore credibility to America's manned space program.

The signs, at entrances to the Kennedy Space Center, greet the 13,000 workers here who have labored 32 months since the *Challenger* tragedy to return the shuttle to flight.

Next Thursday, barring any problems, *Discovery* will be fuming on the launch pad, its flight crew ready to go.

Spirits are high among shuttle workers. They began soaring after a successful launch pad test-firing of *Discovery*'s engines Aug. 10 and an almost flawless countdown practice Sept. 8, the last two hurdles before launch.

"We clearly demonstrated we are ready to pick up the count for real," the space center director, Forrest S. McCartney, told cheering workers after the countdown test.

But one possible threat to *Discovery*'s launch was revealed Wednesday, when NASA officials said an old-model nozzle inlet ring was used in the final test of Morton Thiokol's redesigned space shuttle booster rocket.

However, NASA doesn't believe the finding will delay next week's launch, spokesman Ed Medal said.

Medal said it had not yet been determined conclusively if outdated rings were used in the two boosters attached to *Discovery*, but a preliminary investigation showed they had not.

Kennedy Space Center has adopted the slogan "America's Pride...The Journey Continues" for *Discovery*'s mission.

It is proclaimed on a banner at the launch pad entrance, in offices and on thousands of pins worn by employees ranging from engineers to secretaries.

At the launch pad today, technicians were set to purge *Discovery*'s fuel cells and external fuel tank with gases to remove possible contaminants, install batteries in the communications satellite in the cargo bay, and complete other last-minute preparations for the start of the countdown at 12:01 a.m. Monday.

At Johnson Space Center in Houston, *Discovery*'s crew was scheduled to discuss the mission in late afternoon during a visit with President Reagan. Afterwards, Reagan was to address center workers on the space program.

Once the countdown was under way, the astronauts flew here Monday

See SHUTTLE, page 11

Library expands upward

by Ray Natic
Editor-in-Chief

The Jack R. Hunt Memorial Library continues to undergo a major expansion project that is expected to be ready for student use by the spring semester. According to Library Director, Richard Waddell, the facility will be more than twice its

present size with an increase in student seating from 270 to almost 800.

This project marks the second major library building program at ERAU since opening in 1984. However, according to Waddell, progress is not without its constraints and the library will be forced to alter its operating procedures as the con-

struction proceeds.

The back wall to the existing building has been replaced by a temporary plywood barrier to allow access to the columns and beams. The carrels along this back wall have been moved or relocated. There currently has not been any loss of student seating as a result of the expansion project.

When phase II of the expansion project is completed, new space will be included in media preview areas, small group study rooms, multi-purpose/seminar space and a state-of-the-art Bibliographic Instruction Room. The upper two levels will be accessible by elevator and will be devoted entirely to book stack and study carrel space. The central core of the multi-level building will be an open light well extending upward through the mezzanine levels to a skylight similar to that in Spruance Hall.

Waddell conceded that during the fall semester students should expect noise, slight disruption of service, possible loss of some seating and schedule changes necessitated by the construction. He also noted that there will be several areas of reconstruction within the existing building, although these have been scheduled to cause minimal disruption to those using the library. Actual movement of library material is planned for the holiday break in late December.

"The library staff will do everything possible to make the transition as smooth as possible for the users and we ask your patience and understanding during what will be a trying time for all of us. If we can hold the thought that after the dust, noise, and confusion will come a much enlarged and usable library, then together we will overcome these temporary obstacles," said Waddell.

Author Photo by Karl Sheehy



Author Photo by David O'Dowd

Faculty profile: Rudolf Knabe

by Phyllis A. Salmons
Avion News Editor

"People are what they want to be," so says Associate Professor Rudolf Knabe of the Aviation Business Administration Department. It sounds like a cliché from a motivational tape, but Knabe's statement is based on his personal experiences.

Knabe, originally from Leipzig, East Germany, arrived on the North American continent with very little money and no command of English. Since that time he has been employed as a baggage handler, operations specialist, chief dispatcher, pilot, co-pilot, station manager, ERAU professor and as an instructor for senior airline management personnel. He has seen the aviation industry from all levels and is considered by students an excellent instructor. "He knows what he's talking about because he's been there."

Knabe is a shining example of overcoming the burdens of language and money, showing that hard work will get you where you want to be.

Before leaving East Germany, Knabe earned a Bachelor of Arts in Retail Business from Karl-Marx University in Leipzig. He worked for the East German government for a short time in Switzerland and later worked in Hamburg, before one day boarding a

freighter to Canada.

He arrived in Montreal, unable to speak English, with \$2.85 in his pocket and a railway ticket to Toronto.

"I know how to start from scratch," he said. He worked and paid for his pilot training and subsequent education.

Knabe started in the baggage service area of TransCanada Airlines (now Air Canada) while pursuing studies to become a dispatcher and pilot. He served as Chief Dispatcher for Zantop Air Transport for the 110 aircraft fleet and flew as co-pilot on the DC-3, DC-6, DC-7 B/C and Argosy AW 650. He also served as pilot-in-command of the DC-6 and DC-7.

Knabe gained further experience by working as Station Manager and Operations Controller for Saturn Airlines, coordinating all station operations in the eastern U.S. and Caribbean basin.

He later became the Assistant Vice-President of Operations of Capital International Airlines. His duties involved flight scheduling, line check flights, station operation inspections, international landing right negotiations and management of ground operations.

Knabe continued his education, earning a B.S. in Aerospace Administration and a M.A. in Economics

see KNABE, page 15



Inside the Avion this week

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Trivia:

Nearly all jet aircraft have windshields coated with a very thin layer of gold -- so thin that it's transparent. Gold is a good electrical conductor and makes an excellent defroster.

Editorial

Food for Thought

As of September 26, 1988, Epicure has sold 1724 meal plans to Embry-Riddle students for the Fall term of 1988. Epicure meal plans may be purchased in one of four ways. The "Commuter Special" plan consists of 5 meals per week and students with this plan are not allowed to eat on campus from their meal plan on weekends. Other meal plans include 10 meals per week, 15 per week, and 19 per week, depending on how many meals a student plans to eat on campus per week. Epicure offers three meals a day on weekdays and only two on Saturday and Sunday (brunch and dinner).

In order to keep track meal plan usage, a student is given a punch card with the appropriate number of punches for the week indicated. Unfortunately, many times students forfeit one or more meals a week, because the punches do not carry over from week to week.

There are several reasons that this system is not fair to Embry-Riddle students.

First, Epicure is making quite a bit of money from meals that are paid for but never eaten. Students often lose one or more of these meals each week when a chance to eat out arises or when leaving town for the weekend.

Next, one should consider what a student gets for one punch of the meal card: one entree or salad bar, four side items (vegetables, fruits, dessert), two rolls, and two drinks. Granted there is a large male population at Embry-Riddle who can afford to eat this quantity of food three times daily, but many people cannot eat such large meals very often. At Epicure, if a smaller meal is purchased, it costs one punch, the same as the meal described above.

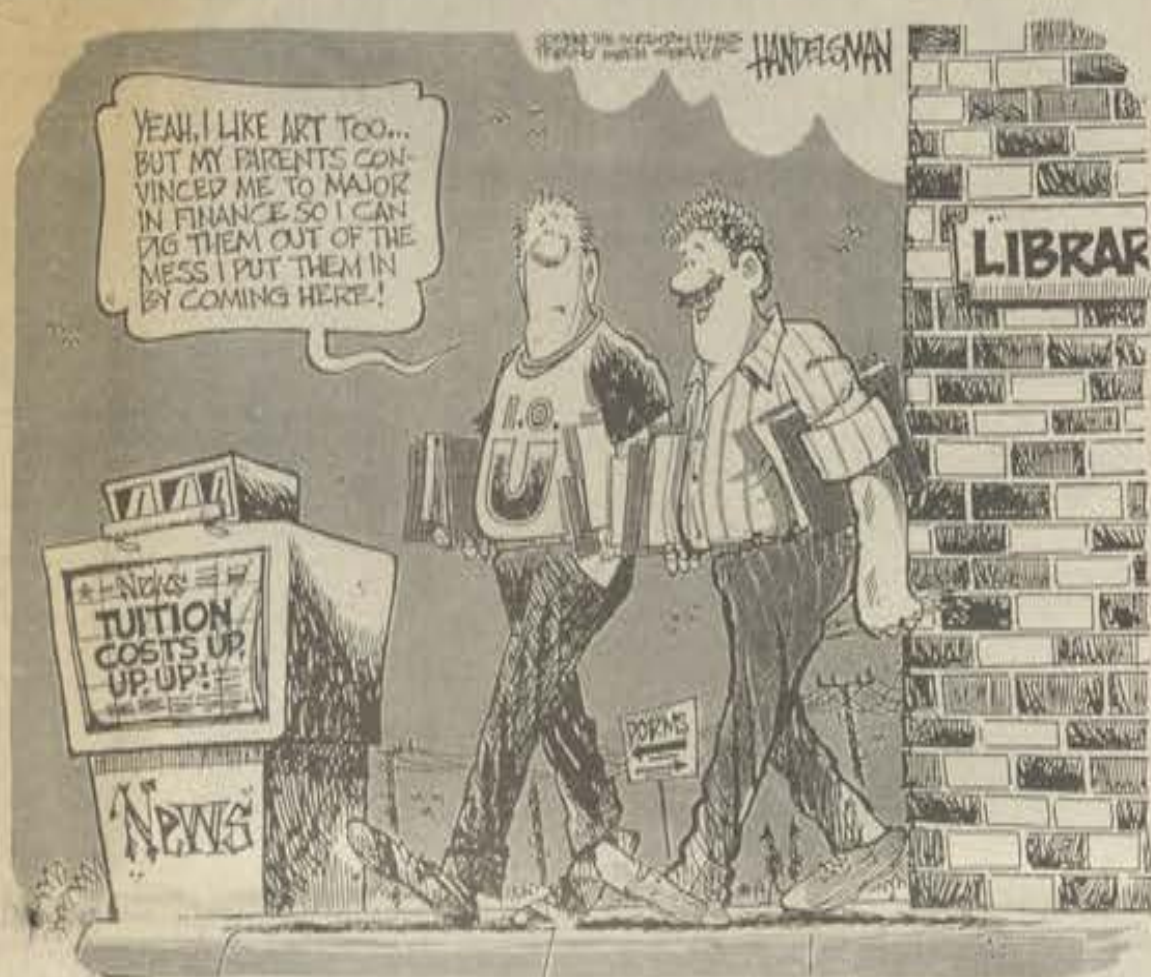
Again, Epicure is getting the same amount of money from those who can metabolize large meals as from those who cannot allow themselves to eat so much. Why can't the meal plan reflect the exact cost of the food purchased?

On many college campuses in this country, a credit-debit system is used. When a meal plan is purchased at the beginning of a term, the student's account is credited with the appropriate amount of money. The student's I.D. card has a magnetic strip similar to a credit card on the back of it. Every time something is purchased from the food service, the I.D. card is run through a magnetic reader and the account is debited for the exact amount of the purchase. The remaining balance is displayed on a screen so the student can keep track of his remaining meal account. Not only would this be more reasonable from week to week, but money could be carried over from meal plans from term to term.

This method appears to be more logical and could even save Epicure money in meal card printing cost since there would no longer be a need for meal card photos or laminating charges.

If Epicure would move into the twentieth century by adopting such a program, no one would have to keep track of the number of meals eaten per week. Everyone would be paying for the amount of food eaten, not the number of times one chooses to eat on campus per week. The real savings would be seen by the students of the University. Everyone would receive the full benefit of their meal plan purchase price, and holders of 5 meals per week would be able to eat at school on the weekends if they so desired.

Epicure knows that we have to eat, and that many of us would find it very inconvenient to eat regularly off campus. If their purpose on campus is really in the best interest of the student, they will consider a more fair system.



Letters to the Editor

Presidential Poem

To the Editor:

This poem is dedicated to the President of my university, Embry-Riddle Aeronautical, Lt. General, USAF (Ret.) Kenneth Tallman.

SKYFEST '88

Embry-Riddle Aeronautical University

He was a Baby Bull that Mother Cruise B1-B lifted to Space.

He became an Electric Eagle that Father Mongoose A-4 received at ERAU base.

Two happy F-15 Eagles from Eagletown thrust screaming towards the skies.

Two winner Tomcats Maverick and Iceman landed on deck for the welcome cries.

The atmosphere at Skyfest was blue and clear with some mysteries. The MIG 28's "killers" had struggled deadly for the victories.

In the homeland of the tough TOPGUN they live at a fighter pilot's pace.

For the native Airmen reflect the film heroes in their life and face.

For his two year intense spiritual combat, the ghost rider got the patch and the white uniform.

For his intense sky combat against the MIG's, the F-4 Phantom driver became the ace Cunningham.

The two NAVY pilots went both right to the edge of the envelope:

The hardware's ultimate limitations; the software of God's interface.

Duke flying the F-4 Phantom; Ghost rider Flying the F-14 Tomcat.

The ace fighting against the MIG's; the Rocket struggling

against Blackwood's ghost.

From an inspiration of God through the name of Christine, the original poem was written by the Christ of the X-fifteen.

Sincerely,
Bassam V. Bedros

To Catch a Crook

(Editor's Note: Bada Dehili, a graduate student at Embry-Riddle was presented a Certificate of Appreciation from the Daytona Beach Police Department on Sept. 20, 1988. On the certificate was the following message:)

Certificate of Appreciation presented to Bada Dehili for your quick response on September 18, 1988

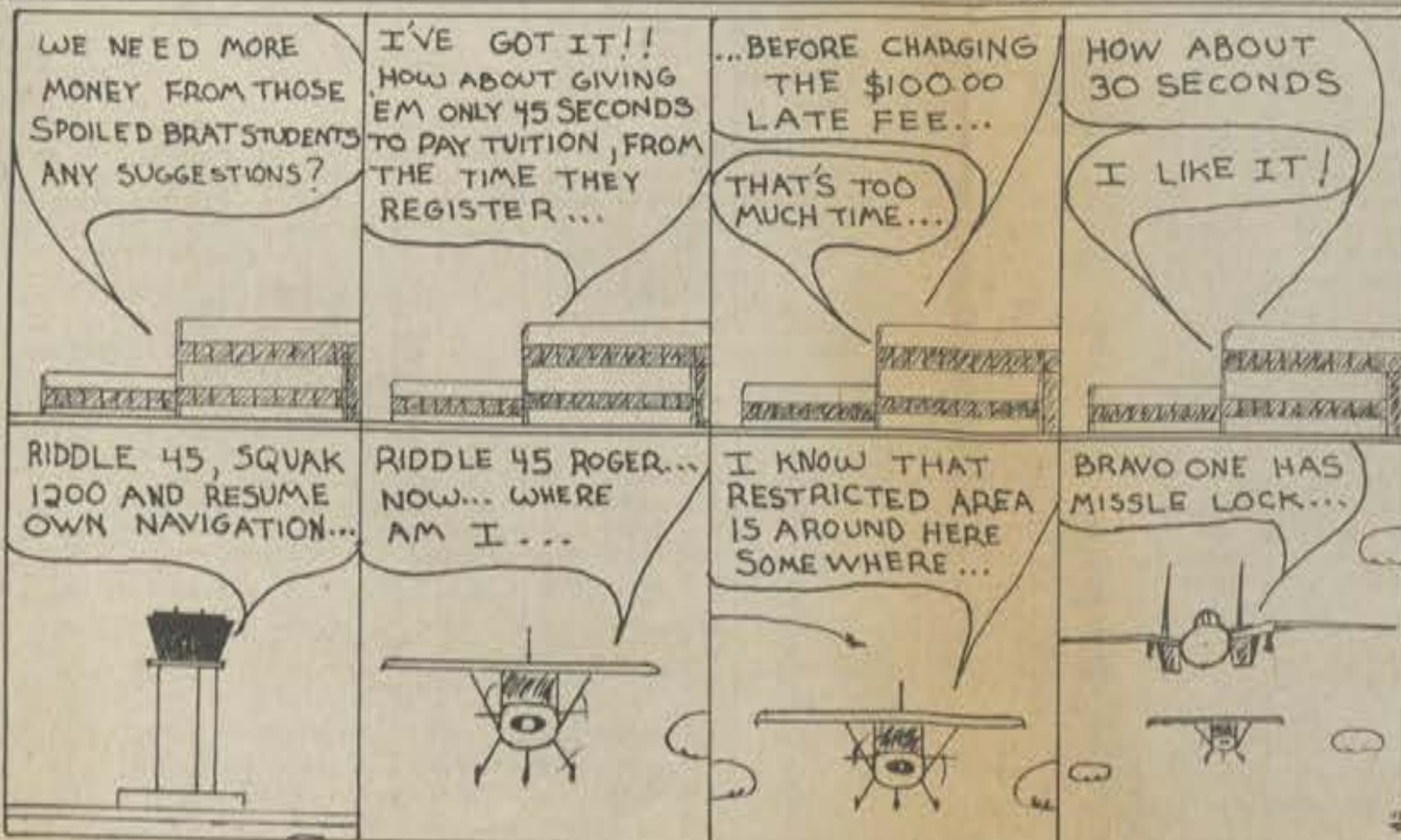
outside the Winn Dixie store at 1560 S. Nova Road when you were summoned by another citizen who had observed an Armed Robbery and Aggravated Battery on an 80 year old victim. As a result of your actions without regard for your own safety, you pursued and captured the offender and held him until the police arrived. Without your help and cooperation with the other citizens involved this criminal may have eluded capture. It is just this type of citizen involvement that makes our community a better place to live. Your Police Department and fellow citizens appreciate what you have done.

Paul B. Crow
Daytona Beach Chief of Police

See LETTERS, page 15

Joe Pilot

by Joe Szarmach



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Avion
Newspaper

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This week's staff: Manuel Fernandez-Longo, Ervin Dampier, Brian Lessin, Bob Rohr, Greg Mullin, Erika Foster, Marianne Taras, Sophie Gyory. The opinions expressed in the Editorial are those of the majority of the Editorial Board, and do not necessarily represent those of the university, the staff of the Avion or the members of the student body. Opinions expressed elsewhere are those of the writer, who is identified.

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

The Avion Editorial Board members are: Chris Legvold, Ben Brennan, Robb Girnus, Denise Harrison, Danny Mangano, John Gonzales, Phyllis A. Salmans, David O'Donnell, Kyle Weststrate, Shawn Greer and Dr. Roger Osterholm. The Avion is an Associated Press member newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisers and the Associated Collegiate Press.

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Student Forum

Do you think the U.S. Space Program has recovered well enough to launch a successful, on-time mission?



Lynette Wagner

Yes, because I think that they need to get back into space sooner or later.



Amy Scott

Yes, I feel that what happened was a tragedy, but it's in the past and mistakes happen. They've had enough time to recover and get off to a new start.



Debi Simson

Yes, they've had enough time to correct any difficulty that could cause any trouble.



Jed Hollenbeck

Yes, we need to get back into space. I feel that we have had enough time to work out any problems. What happened in 1986 was a tragedy, but it has also solved a lot of quality control problems and hopefully we have learned enough not to let something like that happen again.



Jeanne Baker

No, I still think there are some problems and bugs that need to be worked out on the shuttle to have a successful launch. However, there is a considerable amount of pressure on the space program right now to have a on schedule lift off, but the odds are that there will be a delay. The space program needs a perfect launch to regain the faith of the American people.



Jason Martin

Yes, I realize the 1986 tragedy was a very traumatic experience, but we need to get back to work. If we quit trying every time something goes wrong then we will never progress.

Greg's gibe

Environmental radicals seeking to end life -- as we know it

by P. Gregory Mullin
Avion Satirist

I had the opportunity of venturing up to our capital city, Washington D.C., over the micro-break that exists between the Summer B and Fall session. While there, I was unfortunate enough to find myself entangled in a liberal rally of hairy, neanderthaloid environmentalists, each chanting antipollution sentiment in paleolithic dialect.

Complementing this in total esthetic harmony with the ritual were displays of colorful literature and ancient artforms suggesting to the onlooker that the ecological balance of this planet was approaching an inalterable, irremediable and incontrovertible cataclysmic demise. (Somebody hand me a glass of water.)

Despising this sort of informal behavior and having nothing on the agenda with the exception of divulging in gross quantities of dark beer, I took it upon myself to challenge the issue with the most radical appearing lobby lumatic.

I found him- a short, middle aged, fat (enormously fat, perhaps obese), long haired and bearded man dressed in a flowered shirt capable of restoring vision to a blind man, and ripped blue jean shorts that hardly contained the ripples of fat that hung from his mammoth physique. In accordance with prehistoric etiquette, I saluted him with an UGGHH! He acknowledged with similar enthusiasm. I inquired as to whether he had any proposals for limiting the production of the poisons that were destroying our ecosystem.

"Damn right I do," he said. "We have to stop burning fossil fuels, stop producing chlorofluorohydrocarbons,

cease the production of electrical power by conventional means and by nuclear fusion, stop harvesting trees, cease the use of bathing oils on public beaches, and bring to an end the smoking of tobacco products."

Only after a few moments of absorption had I come to the realization that I had come in direct contact, verbally and visually, with the Anti-christ. The struggle of these satanic demons is to terminate civilization as it has progressed for over three millennium.

Agreed, the planet earth is undergoing its greatest physical changes since man has occupied it, (melting polar caps, ozone depletion, acid rain, etc), but to suggest that, at last estimate, 850 million people stop smoking to avoid an ecological ruin is preposterous. Furthermore, almost 2.5 billion people are dependent upon the continuum of electricity in houses, workplaces, hospitals, etc, whether it be generated by nuclear plants or tread mills.

To drastically reduce the availability of this energy source in the name of environmental concern would probably instigate a social uprising so dynamic that the initial issue of environmental clean-up would be masked by international mayhem. And still further, never before has a single invention (like the internal combustion engine) facilitated, protected and propagated human life. These people have to understand that radical behavior seldom produces radical progress, and radical progress in large scale ecological repair is a noble but foolish request.

Environmental relief has and is developing. Perhaps these liberals should assist in environmental problem solving research rather than contribute to the already threatening issue of thermal pollution.

Career Navigator

Prepare for a career: Co-op

by Career Center

"No experience, no job, no experience, no job, no experience..."

Every semester new college graduates hear this. Employers want to hire people with experience because they can predict future success by past success.

Besides, if you have worked in a professional setting you understand how to work with other professionals. But, how do new graduates get this valuable experience?

Co-op is a great way to break the "no experience, no job" cycle. It is great because it is usually easier to get hired for co-op than a permanent job and students can earn academic credit.

Employers hire students into co-op positions so they can (1) find good permanent employees (2) reduce recruiting and training costs and (3) help new professionals.

Employers often make co-op hiring decisions based on a resume, transcript and possibly a phone call. They hire easily for co-op because they are not committed to a high salary for years to come. Co-op allows them to take less of a risk.

Co-op allows students to earn academic credit for what they learn at work. This helps students because (1) they maintain their student status while working - important for those with loans (2) they can use these credits as open electives (3) they may

earn money for college expenses (4) they can make contacts for permanent employment and (5) they gain professional experience!

Co-op is not an easy way to get credits. It takes work to plan courses, maintain a GPA of 2.5 or better, find a position, move to the job and move back to school. Co-op students say it is worth the effort. It is worth it because they learn about themselves, work and the aviation and aerospace industries. It is worth it because it is preparation for a career.

If you are in college to get a degree as fast and easy as possible, co-op is not for you. If you are in college to prepare for a career in aviation or aerospace, co-op is for you.

JOHN M. GONZALES
Advertising Manager



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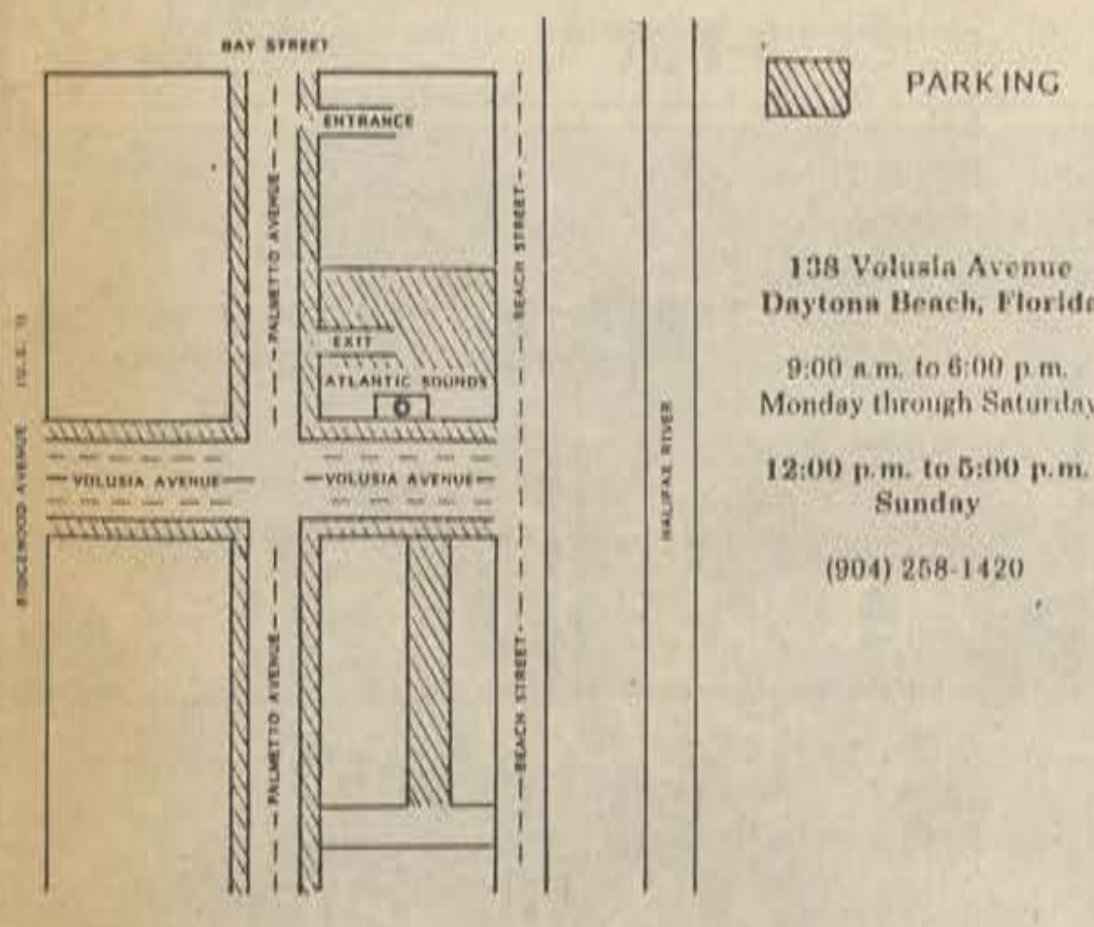
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Source: nothing wrong with takeoff warning sysyem

FORT WORTH, Texas (AP) The takeoff warning system of the Delta jet that crashed at Dallas-Fort Worth International Airport last month worked perfectly in extensive tests, a newspaper reported Saturday.

The wiring, horn and other warning systems parts removed from the wreckage of Delta Flight 1141 were tested this week by the Boeing Co. in Seattle, but the tests did not turn up evidence of a malfunction, sources told the Fort Worth Star-Telegram.

The results raise more questions than they answer about what caused the Boeing 727, with 108 people aboard, to crash on takeoff Aug. 31.

Sources told the newspaper the test results suggest the aircraft's wing flaps were at or near their proper position during takeoff.

Cockpit voice recordings showed that the warning horn never sounded, suggesting the flaps were set correctly.

But National Transportation Safety Board officials said that the plane's flaps were found in the up or wrong position at the crash site and that the flap control handle the cockpit also was found in the up position.

Delta Flight 1141 was airborne for 21 seconds before it fell back to the ground, bursting in flames and killing 13 people.

Sounds similar to compressor stalls, or to backfiring in a car, also were picked up on the cockpit voice recorder. Disassembly of the plane's three engines indicated they were capable of producing full power at the time of impact, safety board officials said.

On Sept. 16, the Federal Aviation Administration asked the nation's airlines to perform inspections of the takeoff warning systems aboard about 1,200 Boeing 727 aircraft in their fleets.

FAA honors father of federal civil aviation-safety regulation

WASHINGTON (AP) An Illinois man credited with developing the nation's airway system and founding what evolved into the Federal Aviation Administration received special recognition from the agency 19 years after his death.

The FAA officially re-designated its administrator's conference room as the as the MacCracken Room in honor of the late William P. MacCracken Jr., the first assistant secretary of commerce for aeronautics.

"More than any other individual, Bill MacCracken was clearly the father of federal civil aviation-safety regulation," FAA Administrator Allan McArtor said Friday at a morning ceremony marking the name change.

MacCracken was born 100 years ago in Chicago, received a law degree from the University of Chicago in 1911 and became a pilot in the U.S. Army Air Services during World War I.

As chairman of the American Bar Association's committee on aeronautics law, he helped write and secure passage of the Air Commerce Act of 1926, the first legislation regulating civil aviation.

President Calvin Coolidge appointed him in August 1926 as the first head of the Commerce Department's aeronautics branch, the first predecessor of the FAA.

MacCracken received the first pilot's license issued by the agency in 1927 and, from his appointment until 1929, was responsible for overseeing the first federal air-safety rules and development of the first civil airways.

"It was under MacCracken's direction that the forerunner of the greatest airway system in the world was built," McArtor said. "Today's federal aviation regulations spring directly from his pioneering leadership."

He was awarded the Wright Brothers Memorial Trophy for his contributions to aviation in 1959, 10 years before his death.

During Friday's dedication ceremony, Nell MacCracken of Washington announced a \$10,000 gift in honor of her late father to establish the Aviation Education Foundation, which will provide the public with information on aviation issues and promote training in the field.

Newspaper finds dial-a-porn calls on highway department bill

LITTLE ROCK (AP) Some middle of the night calls made from the state Highway and Transportation Department showed regular calls to pornographic message services, dating services and a "panty-of-the-month club," a newspaper said.

When asked about the department numbers that the calls were billed to, highway department officials said it was the department's Sign Shop, where highway signs are made and repaired.

In addition to the dial-a-porn calls, the department's phone bills reflect early-morning calls to women's underwear shops and sports and astrology services.

In addition, there were three calls to a Queens, N.Y. outfit called "Panty of the Month," which offers designer lingerie as well as a promise to deliver it in gift wrapping.

The calls were sometimes made several times a night.

PSA crash: 10 years later physical scars gone but memories burn

SAN DIEGO (AP) Time has erased the physical scars from the San Diego neighborhood that 10 years ago was the scene of a flaming aviation disaster in which 144 people in the air and on the ground were killed.

Even the air carrier stricken by the Sept. 25, 1978 crash, Pacific Southwest Airlines, this year faded into history, bought out in a \$400 million takeover by US-Air.

But the memory of the tragedy still burns in the minds of those who stayed in the North Park community to rebuild their lives and shattered homes.

It was a cloudless Monday morning when the PSA Boeing 727, on approach to Lindbergh Field, clipped a private plane. Both fell to earth in a devastating, deadly end, igniting an inferno that destroyed a dozen homes and damaged seven others.

None of the people in the planes survived. Seven people on the ground also died in what was then the nation's worst aviation disaster. National Transportation Safety Board inspectors blamed the accident on faulty air traffic control procedures and PSA crew error.

Experts uncertain how to protect crew during long flight to Mars

WASHINGTON (AP) Experts on space medicine said they still don't know the best way to protect crew members from the effects on weightlessness while on a long mission to Mars.

At a news conference Friday, U.S. and Soviet space medicine specialists said that despite research data gathered from a 326-day Soviet spaceflight, it is still not known how the human body would be affected on a space mission that could last up to three years, about the time needed for a round trip to Mars.

Studies have shown that even on short flights in space, the human body starts adapting to weightlessness. The heart and the cardiovascular system weaken. The body loses some fluids and blood mass. Body fluids also move from the legs into the body and head. Bones lose minerals and become weaker.

All these changes, which are adaptations to weightlessness, must be reversed when the space traveler returns to Earth. For some Soviet and American space fliers, the re-adaptation to gravity has been difficult.

To overcome this problem, some Soviet and American experts have proposed the use of artificial gravity, created through the use of centrifugal force in a rotating device aboard a spacecraft. Such a device could be used to retain the body's adaptation to gravity and slow the effects of weightlessness.

Dr. Eugeny Ilyin, head of the biomedical problems at the USSR Ministry of Public Health, said the Soviet experience aboard the Mir Space Station has shown that during flights of up to about one year, "we can do without artificial gravity using counter measures developed in our country."

For a flight to Mars, however, he said, "I don't really know if we need artificial gravity or not."

His personal feeling, said Ilyin, is that a centrifuge could be put on board a Mars ship and that crew members could spend time in it periodically to retain their adaptation to gravity.

Dr. Arnaud Nicogossian, director of life sciences at the National Aeronautics and Space Administration, said that artificial gravity "may be the answer" but that more studies will have to be done before a firm conclusion is drawn.

Northwest fares up since merger with Republic

MINNEAPOLIS (AP) Travelers flying on Northwest Airlines to and from the Minneapolis-St. Paul area have been paying higher air fares since Northwest merged with Republic Airlines in 1986.

While air fares between 1986 and 1987 went down for most consumers, fares increased an average of 10.2 percent for travelers flying to and from the Twin Cities, according to Severin Borenstein, a University of Michigan economics professor.

Northwest and other established airlines faced reduced competition because of a range of new factors in the airline industry frequent-flier programs, new travel agency practices and airline economics.

Roving vacuum cleaners for space garbage?

TUCSON, Ariz. (AP) Kumar Ramohalli imagines a fleet of giant vacuum cleaners orbiting the Earth half-ton robots that grow larger and more powerful as they clean up space-age litter.

But a Ramohalli vacuum cleaner wouldn't look like a typical Hoover upright.

The plastic hoses, disposable paper bags and tangled cords would be replaced by gold-coated mirrors, square plastic lenses and a beam of light that could cut metal like a blowtorch.

"We envision a fleet of about 10 or 12 of these 'vacuum cleaners,'" the University of Arizona aerospace engineer said recently as he showed off his Autonomous Space Processor of Orbital Debris also known as the space-junk collector.

In June, they demonstrated the machine for the National Aeronautics and Space Administration, which supplies about \$22,000 a year for project development.

By the mid-1990s, one of these roving robots could be tracking and consuming space debris 300 to 400 miles above Earth.

Orbital debris includes about 48,000 objects measuring one centimeter or larger.

Without careful monitoring, the larger objects could falsely signal a nuclear attack when they re-enter the atmosphere.

Smaller pieces of space garbage even a tiny fleck of paint can disable a newly launched spacecraft or cut through an astronaut like a bullet.

The spacecraft would be placed into orbit by a space shuttle, then latch onto and devour man-made debris.

The junk collect reflect sunlight through lenses that focus it into a torch-like beam. The beam would cut metallic objects into new reflector panels and add them to the existing array.

The robot would thus grow as it consumes, its beam becoming increasingly powerful.

Crawford said the space-junk collector sounds like a valuable tool but would not help clean up the myriad of tiny, unseen particles that pose the greatest threat to spacecraft.

Iraqis stumped by cease-fire deadlock

BAGHDAD, Iraq (AP) Iraq claims it won the Persian Gulf war with Iran, but officials increasingly suspect they are losing the peace.

A string of Iraqi battlefield victories this year devastated Iran's war machine and apparently forced the Islamic Republic to accept a U.N. cease-fire it had rejected for nearly a year.

But Iraq's demand for a permanent settlement of the 8-year-old conflict is stalled in U.N. mediated peace talks. International condemnation of Iraq's alleged use of outlawed chemical weapons against Kurdish rebels has put the country on the diplomatic defensive.

Iraq claims Iran does not want peace, just a breathing space to rebuild its army before resuming efforts to spread its Islamic revolution.



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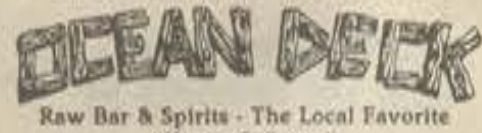
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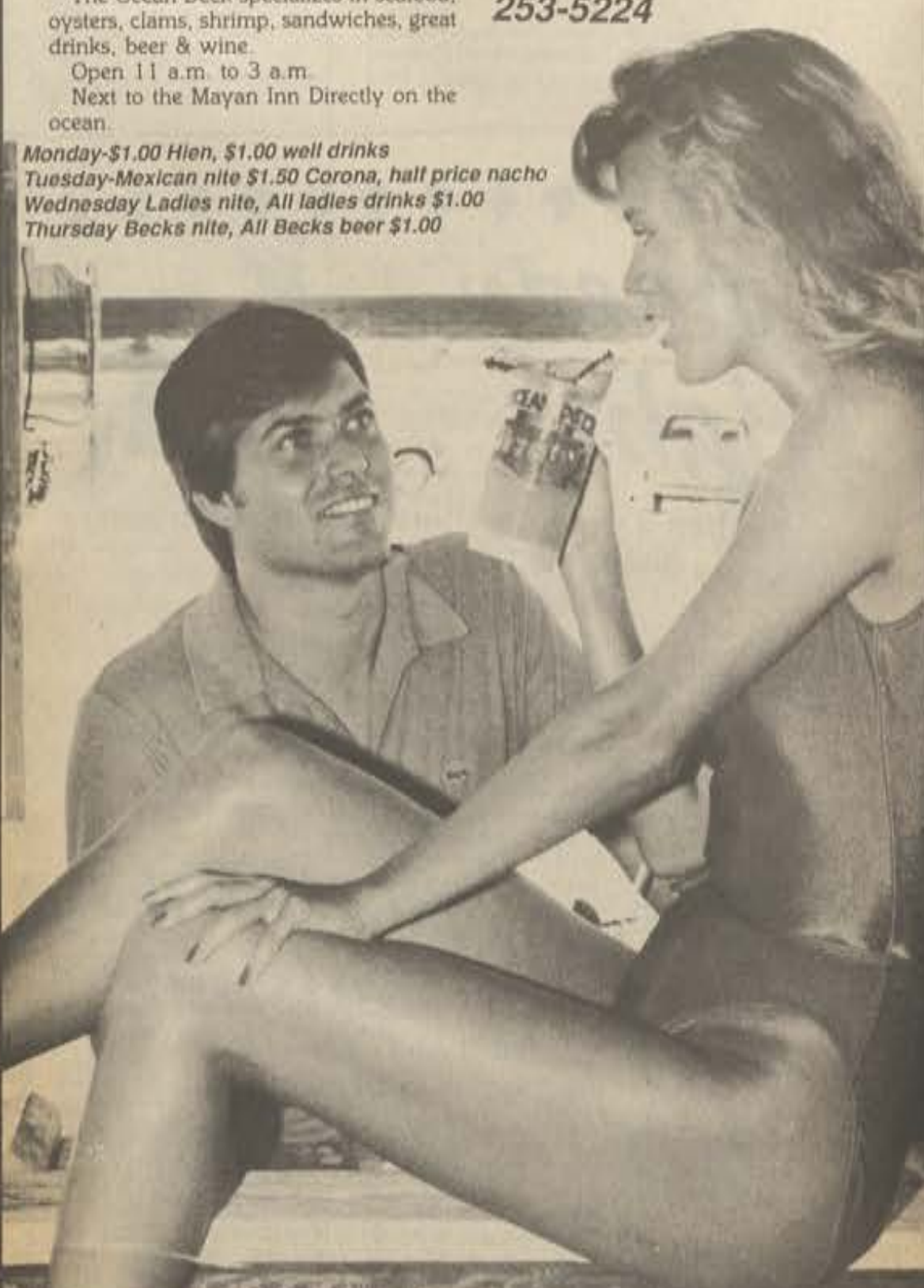
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Riddle Regatta returns in '88 with a splash

by Sophie Gyory
Vet's Club Correspondent

On June 30, 1973, the Vet's Club held the First Annual Riddle Regatta on the Halifax River. Since then, the Regatta has been held every year except the last two, when river dredging and sponsor problems prevented the running of the race.

This year, however, on Saturday, October 8, the 16th Annual Riddle Regatta will be held on the Halifax River. The race will start at 1 p.m. at 300 North Beach St., across from the Massey Chrysler-Plymouth Dealership, and will end at City Island. The rain date will be Sunday, October 9.

Registration and inspection will go on from 9 a.m. to 12 p.m. the day of the race. However, in order to ensure that all contestants receive their free regatta t-shirts, the Vet's Club urges everyone to enter early. This can be done with the entry forms attached to the Regatta packets that all clubs and organizations on campus have received.

The Vet's Club requests that you fill out the entry forms and send them, along with your entry fee to: the Vet's Club, care of Raylene Alexander, President, ERAU Box 1033. This entry fee includes a free t-shirt and the buffet and drinks at Spanky's after the race.

The post-race party and awards ceremony will be held at Spanky's, located at 1108 Beville Road and will start at 3:30 p.m. There will be free soft drinks, beer, and a buffet for all Regatta contestants and a \$10.00 cover for non-contestants.

The proceeds from the Regatta are usually given to a charitable organization. This year, however, the money will be put into an account for future Regattas in the hopes that what happened the last two years will not happen again. The Vet's Club would like to see the Regatta eventually become self-supporting. Next year's profits will once again be contributed to a charity.

If a club or organization on campus wishes to challenge another club or organization, the Avion has agreed to print the challenge. The Vet's Club has already paid their entry fee and has challenged the Windsurfing Club in this year's race. The PLC Club has also paid but has yet to issue a challenge.

Precision Flight Team sponsors Dr. Reinhart's return to speak of medical problems in aviation

by Erika L. Foster
PFDT Safety Officer

Have you ever had a medical problem that you were afraid would disqualify you from getting your airmans certificate (i.e. how severe are "severe headaches")? Well, if you do not want to ask your medical examiner, you now have a chance to ask an FAA Airman Medical Examiner (AME) in a totally confidential meeting.

Dr. Reinhart will be at Embry-Riddle October 5th and 6th to conduct an open forum on subjects such as "How to lose your medical in 5 easy steps" and "Proven techniques of making holes in the ground" (spatial disorientation), etc. In addition to the forum, Dr. Reinhart will be available for private appointments to answer any questions you may have.

If you have ever attended any of Dr. Reinhart's lectures, you know how valuable his medical informa-

tion is. You will surely find them very informative.

As pilots, it is our responsibility to keep up with all of the newest information that could affect our flying ability including medical factors.

In addition to being a well known public speaker, Dr. Reinhart is the author of "The Pilot's Manual of Medical Certification and Health Maintenance," and writes a monthly article in *Business & Commercial Aviation Magazine* (Medical Editor). He is also the Aeromedical Consultant for Future Aviation Professionals of America.

If you are interested in meeting with Dr. Reinhart, he will be available for appointments on Oct. 5 - 1 p.m. to 5 p.m., and on Oct. 6 - 9 a.m. to 11 a.m. Call extension 6852 for appointments. The lecture will be held Oct. 5 at 8:30 a.m. in the U.C. and Oct. 6 at 1:30 p.m. in A109. We hope to see you there.



Avion file photo

The Vet's Club invites you to join the fun on October 8! The race is just over one mile long. First, second and third prize trophies will be awarded in the categories of Individual, Two-person, Four-person, Team

(5-8 people), Corporate and Food & Beverage rafts. There will also be a President's Trophy awarded for the most unique nautical creation. For any further information contact the Vet's Club.



Avion file photo

For the boys on the plane, sometimes the excitement is in the air

WASHINGTON (AP) The reporters trailing George Bush could overlook the smell of something burning aboard their Boeing 727, but two days later when the pilot dumped fuel over Lake Michigan to make an emergency landing, they'd had just about enough.

Once on the ground in Chicago, they refused to re-board the Key Air charter jet and scurried to make their own arrangements on scheduled flights to the West Coast to catch up with the candidate, who had flown on Air Force II.

Key Air, meanwhile, trying to salvage its \$1.8 million contract, shadowed the Bush campaign with an empty airplane.

Mechanical troubles, aborted takeoffs, surprise government inspections, the grounding of at least one plane, even a delay caused by Secret Service agents poking holes in a plane when they closed a door improperly, have marked this year's presidential campaign trips.

Among reporters, there's been much chatter about safety aboard the chartered flights which carry the press, campaign staff and candidates, except for Bush who normally travels on Air Force II.

Flights on campaign charters over the years have never been examples of decorum or for that matter strict compliance with cabin safety regulations.

"People have been known to surf and ski down the aisles on takeoff," says AP political writer Evans Witt. A favorite pastime begun is the rolling of an orange down the aisle on takeoff to see how far it gets before disappearing under a seat. Nancy Reagan used to be a frequent participant.

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McDonnell-Douglas: Ahead in Aviation Technology

by David O'Donnell
Aeronautica Editor

McDonnell-Douglas has a lot of things going now.

One thing that should help keep Douglas competitive with their competition on their military programs is their move to consolidate all their military programs under one command. McDonnell Douglas Training Systems Inc. will have two branch locations, one in Long Beach, California and one in Bedford, Texas. The advanced training department will take up the efforts of the Long Beach California plant. The Bedford plant will take charge of the current on going programs.

crew of the new direct-delivery airlifter, along with training of engine run technicians. C-17 ATS is now in the competition phase.

Croswhait said that Everett Chambers will transfer to MDTIS as C-17 ATS program manager. He will direct all training systems for new military programs, including the C-17, based in Long Beach.

The Bedford branch of MDTIS will be managed by Ron Joubert. The current programs the Bedford branch is handling include the aircrew training of the aircrews for the Air Force/McDonnell Douglas KC-10 tanker/cargo aircraft, and providing academic and simulator instruction for six Air Force

During the test, the MINIPAC II was fired from a stationary sled. A sensor equipped dummy was aboard as the seat was propelled to an altitude of 160 feet, with the main parachute opening at the top of the trajectory.

This test is one of the most difficult for an ejection seat, since there is no air movement to assist in opening the parachute.

The MINIPAC is a company funded development of the Douglas Aircraft Co. designed for use in turboprop powered trainers, and other low- to medium-speed aircraft.

The MINIPAC II uses technology of the prove and reliable ACES II now use in the F-15, F-16, A-10 and B-1 Aircraft. At about half of the weight (less than 90 pounds), and half the price of the ACES II, the new seat offers fully automatic operation at speeds from 0 to 380 knots and at an altitude from 0 to 50,000 feet.

Douglas engineers said all the ejection, parachute deployment and seat separation actions took place as designed and the seat, using the STAPAC gyro control system, remained stable in pitch throughout the ejection.

Although the MINIPAC II is a fully automatic systems, it retains an "over the side bailout" option, in which the pilot leaves the airplane with his parachute while not using the ejection seat.

Two more tests are to be conducted prior to qualification of the seat—one at 150 knots and another at 300 knots.

One of the older aircraft that is receiving some McDonnell Douglas attention is part of a joint effort between them, Messerschmitt-Boelkow-Blom (MBB) and Hughes Aircraft. The program involves developing a F-4 Phantom II upgrade that will extend the life of the aircraft well into the next century.

The team sees a modernization market of some 250 aircraft in services with Air Forces world wide. The program manager of the three teams believe that this cooperative arrangement provides the best solutions because it can draw on the vast experience of McDonnell Douglas and MBB as weapon system integrators and Hughes' expertise in airborne radar.

The key to the program is the Hughes APG-65 radar which was selected last year by the Federal

Republic of Germany for the Luftwaffe's F-4F Improved Combat Efficiency Fighter. The service selected the digital, multi-mode radar following an extensive evaluation of competing radar systems. Originally developed for the McDonnell Douglas F/A-18 Hornet strike fighter, the APG-65 satisfies the requirements of air to air and air to surface missions and can be easily updated through software changes.

In the air to air role, the APG-65 can track multiple targets and feature a "fire and forget" capability. It will allow the F-4 to launch the Hughes Advanced Medium Range Air to Air Missile (AMRAAM) and all air-to-ground weapons in the NATO inventory. For the Air to Ground missions, the APG-65 can locate fixed or moving targets on land and at sea in adverse weather.

The APG-65 is currently in service with the F/A-18' of the US Navy and Marine Corp and of the air forces of Canada, Spain and Australia and was recently selected by Kuwait as it's newest fighter.

Along with the improvements that McDonnell Douglas has been working on for the F/A 18 Hornet they are undertaking a whole scale modification program for the F-15 Eagle. The F-15 Eagle modified by McDonnell Douglas to demonstrate advanced fighter aircraft technologies today, began a two phase flight test program in St. Louis earlier this month.

The one-of-a-kind "Agile Eagle" jet, a modified F-15B called the Short Takeoff and Landing/Maneuvering Technology Demonstrator (S/MTD), is designed to land on and take off from portions of wet, bomb-damaged runways measuring no more than 1,500 feet by 50 feet, at night, in bad weather, in cross winds gusting to 30 knots, with out active ground based navigational assistance.

The F-15 S/MTD is equipped with movable canards mounted on the forward fuselage, a four channel digital fly-by-wire integrated flight/propulsion control system, the latest cockpit controls and displays, and an improved landing gear capable of sustaining landings on rough fields at high descent rates.

The first phase of flight testing will last approximately three months. The second phase will begin in early 1989 following the installation of a new en-

gine currently under design by the Pratt & Whitney division of United Technologies. Following a brief flight test schedule in St. Louis, the F-15 S/MTD jet will then be flown to Edwards Air Force Base in California, where flight testing will continue for approximately nine months.

Work on the F-15 S/MTD program is being done under a prime contract awarded to McDonnell Douglas in October of 1984.

Part of the work being done on the new F-15 S/MTD will tie in to another project that is currently underway in the Air crews systems division of McDonnell Douglas. Gene Adam, staff director of this division, says that Fighter cockpit displays are lagging behind advances in other major avionics technologies. That weak link could mean trouble for pilots in combat, he said. "We've taken cockpit design about as far as it will go with existing technologies," Adam said. "Future aircraft will need a cockpit revolution we had when we switched from propellers to jet aircraft."

Under Adams leadership, McDonnell Douglas has developed two advanced concepts that could mean the cockpit revolution. The company's Big Picture cockpit display panel and Agile Eye helmet made their international debut at the 1988 Farnborough Airshow in England. Both are being

demonstrated as part of a McDonnell Aircraft exhibit.

"Big Picture gives you a global view" Adam said. "Agile Eye helps you fight and tells you what's happening in your own patch of sky." Using Big Picture, pilots interact by voice, sight, sound and fingertip with a single multi-color display screens that span the cockpit.

As a pilot approaches a battle zone, for example, he will view a display that makes it easy to determine where his aircraft is in relation to air and ground threats. He will also see where friendly aircraft are and which aircraft have yet to be identified.

The only technological hurdle remaining for Big Picture is development of a screen that will be big enough and bright enough for pilots to see on the intense sunlight of high altitude, where it is 200 times as bright as in an office. Adams said. Agile Eye which the U S Navy has flight tested, enables the pilots to track several adversaries at once during combat. McDonnell Aircraft developed Agile Eye in partnership with Kaiser Electronics. Vital data that is now projected on a heads-up display (HUD) mounted atop the instrument panel is instead shown on the inside surface on the pilot's Agile Eye helmet visor. Pilots can thus see that information wherever they are looking instead of only when they turn their heads forward to see the HUD.



McDonnell Douglas Photo

The Big Picture...

Big picture and agile eye, state of the art cockpit display systems are in the works at McDonnell Douglas' St. Louis plant.

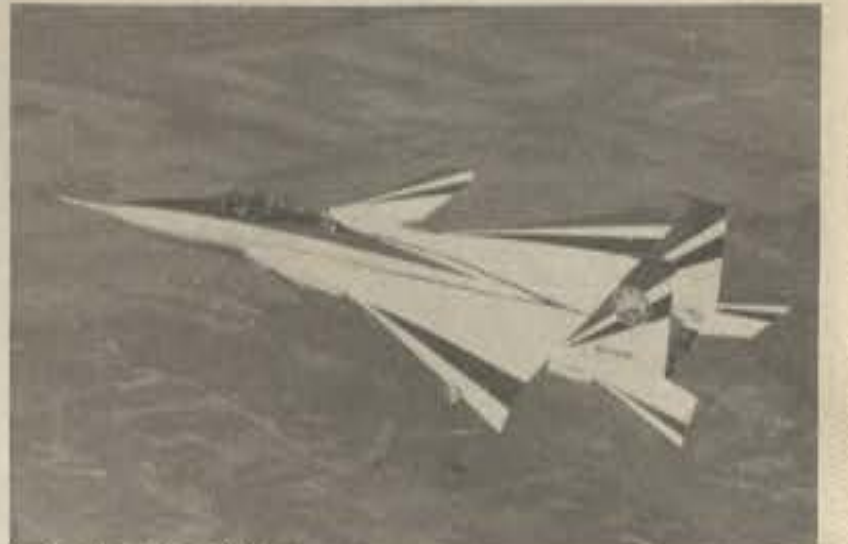
Chairman of the program says "This change will give us an effective and focused management structure to take advantage of new business opportunities in the expanding military training area. Bedford will continue to operate our ongoing programs and compete for training systems associated with in-service military training equipment, and Long Beach has the task of developing and implementing training systems for new programs."

The first program to come under the new MDTIS Long beach organization is the C-17 Aircrew Training Systems (ATS). This program has been under development by Douglas to train the two-pilot, one loadmaster

Tactical Air Command aircraft, including the F-15 and F-15E, F/EF-111, F-4E/G, A-10 and OV-10.

"MDTIS now has the technical and management skills to develop and operate new training systems, as well as assume the responsibility for managing and updating existing training programs," Croswhait said.

Another hot item on the McDonnell Douglas agenda is the MINIPAC II lightweight ejection seat. Since 1954 McDonnell Douglas has produced more than 12,000 seats. The MINIPAC is their newest seat. The seat successfully completed a zero-speed, zero-altitude test late this month at Hurricane Mesa, Utah.



McDonnell Douglas Photo

Eagle Testing...

The new F-15 S/MTD is completed and is currently undergoing preliminary testing. This new age technology fighter is specifically designed to operate in a short take-off and landing environment.

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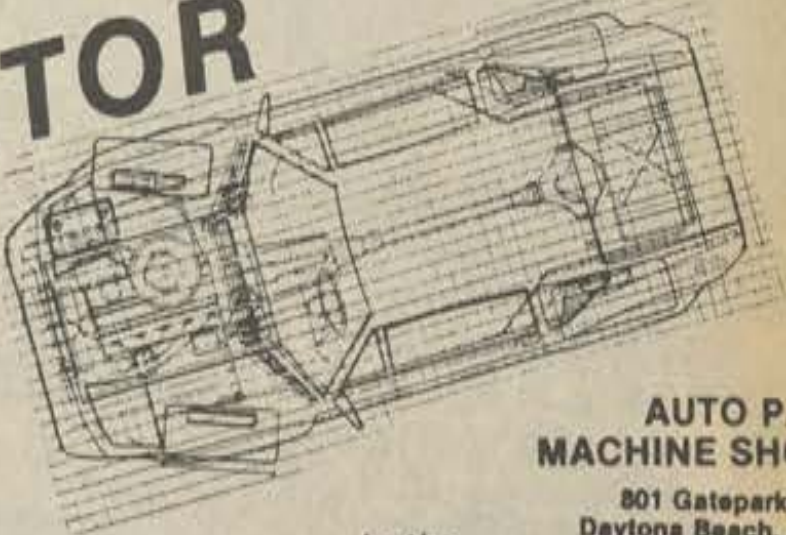
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EAA Aviation Foundation scholarships awarded

by Marianne Taras
Aeronautics Reporter

The EAA Aviation Foundation Scholarship Awards were announced during the 36th annual EAA Fly-in Convention, which was held in Oshkosh, Wis., July 29- August 5. The awards were presented during a special evening program at EAA's "Theater in the Woods" on Monday, Aug. 1.

"The goal of the EAA Aviation Foundation Scholarship Program is to encourage, recognize and support excellence in students pursuing knowledge of aviation technologies and skills," said Foundation President Tom Poberezny in recognizing the scholarship winners. "Each year, the Aviation Foundation administers more than \$100,000 in educational scholarships for deserving young people who are interested in aviation careers. Scholarship sponsors are to be commended for their continuing commitment to providing meaningful opportunities for aviation's future leadership."

The scholarship awards are as follows:

The Spartan School of Aeronautics Scholarship - David Kopeschka, Fairmont, Minn.

EAA/GM Allison Gas Turbine Engine Co-operative Student Awards - Christopher Purdy, Papillion, Neb. and David Kopeschka, Fairmont, Minn.

EAA/Tri-State Aeronautical Engineering Scholarships -

John Patrick Barrett, Wyandotte, Minn. and Brian Sheppard, Indianapolis, Ind.

Herbert L. Cox Memorial Scholarship - James Bono, Cahokia, Ill.

Teledyne Continental Aviation Excellence Scholarship - John LeCompte, Ellensburg, Wash.

EAA Aviation Achievement Scholarship - James Staton Jr., Ocean City, N.J. and Dennis DeBottis, Syracuse, N.Y.

Richard Lee Vernon Aviation Scholarship - Daniel Flynn, Calistoga, Calif.

Bill Falk Memorial Scholarship - James Yaroch, Carbondale, Ill.

Wagner Foundation Professional Pilot Scholarship - Pamela Tynus, Chicago, Ill.

Piedmont establishes all-time co. record for passenger boardings

by Marianne Taras
Aeronautics Reporter

Piedmont Airlines boarded more passengers during July 1988, than any prior month in company history. The all-time record of 2,399,637 passengers in July showed a 7.3 percent increase over the same month in 1987.

Piedmont flew those passengers a record 1,195,451,760 revenue passenger miles (RPM's), an increase of 14.5 percent flown during the same period in 1987, and more RPM's during one month period than ever before in company history. July's capacity of 1,895,187,527 available seat miles (ASMs) also set a new all-time monthly record, with an increase of 16.0 percent over the ASMs in July 1987.

"These outstanding results are a tribute to the dedication of the people of Piedmont in all job classifications," said J. Daniel Brock, senior vice president - marketing. "Never before

continued to grow and prosper so successfully as the operational merger neared. These past few months of record traffic confirm Piedmont's commitment to insuring a major contribution to the new US Air with which we will be merging in early 1989."

For the seven months ended July 31, Piedmont flew 15,757,894 passengers, an increase of 8.1 percent flown during the same period in 1987. Piedmont had 7.53 billion RPMs an increase of 15.5 percent over the 6.52 billion recorded last year. Capacity grew to 12.57 billion ASMs, an increase of 17.7 percent over the 10.68 billion offered during the first seven months was 59.92 percent, down 1.12 points from a load factor of 61.04 percent for the same period in 1987.

Piedmont, based in Winston-Salem, NC, is a subsidiary of US Air Group, Inc.

Pin blamed for landing problem

FORT WORTH, Texas (AP) A jammed pin kept landing gear on an American Airlines jet from operating properly, forcing the pilot to make an emergency belly landing at Dallas Fort-Worth International Airport last week.

National Transportation Safety Board investigator Warren Wandel said Friday that the pin jammed the landing gear attached to the left main door as the Boeing 727-200 jet approached the airport runway Wednesday.

The 7-year-old jet, on a flight from Oklahoma City, skidded on its belly with all landing gear up after pilots were unable to get the left gear down, airline officials said. Eighty-one passengers and seven crew members

aboard were evacuated with no serious injuries after the emergency landing.

Wandel said a 1-inch pin in the mechanism that lowers the landing gear apparently failed.

"It appears that the pin just broke with normal wear and tear," Wandel said. "When it jammed, it prevented some mechanical locks from opening and releasing the door."

Maintenance crews replaced the pin, and the landing gear operated properly, he said. The broken pin was sent to a metallurgist for analysis. Repairs to the airplane are expected to take six weeks.



Associated Press/Lanphorn

Boeing Aerospace delivers software for E-3 AWACS

by Marianne Taras
Aeronautics Reporter

Boeing Aerospace has delivered a set of software productivity tools and enhancements expected to significantly reduce the Air Force effort required to develop and maintain software on the E-3 Airborne Warning and Control System (AWACS).

On July 21, The Boeing Aerospace Information Sciences Technology Organization delivered and demonstrated the productivity-saving elements produced under the

Software Get Price contract. The Air Force's Electronics Systems Division (ESD) at Hanscom Air Force Base, Mass., awarded this contract three years ago.

The delivery was made to ESD's Capt. Paul Byrnes, the Get Price program manager, the Oklahoma City Air Logistics Center Engineering Division's Computer Resources Branch; and personnel from the 552nd Wing Mission Support at Tinker Air Force Base, Tinker is responsible for fleet maintenance of

the E-3 AWACS, a long range Boeing 707 aircraft that performs airborne radar surveillance and military command, control and communications functions.

"The Get Price software tool set is estimated to increase efficiency in new AWACS software development by approximately 17 percent," said Bill Hodges, manager of the effort for Boeing.

Additionally, a new software tool called the Automated Software Verification System was delivered on

July 21, 1988. The ASV is a computerized expert system that works in the Base environment to automatically identify errors in the software used to control E-3 tactical communications using the Tactical Data Information Link (TADIL-J) protocol.

The Get Price effort also included a study to determine which types of E-3 software products could be reused on other C3I projects. Another set of expert systems rules is scheduled for delivery in December.



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AAAE plans range of events

by Kris Koenig
President

Welcome back to another fun-filled and exciting fall semester at ERAU. Even more, I would like to welcome all incoming students and tell you what our club is all about.

The ERAU American Association of Airport Executives is the student chapter of the National AAAE organization. Our objective is to gain knowledge of the aviation industry by providing interaction between students and aviation professionals.

Our means to accomplish this is through tours of airports, airlines and aircraft manufacturing companies. We also invite speakers from various fields to address the club, and our goal each year is to send students to the annual AAAE conference. Last semester, two students had the

privilege of attending this event in Las Vegas.

To get the semester rolling, here are some of the events schedule for October:

- 1 NASA Tour
- 6 Club Meeting
- 15 Club Barbecue
- 20 Speaker: Don Doyle, Station Manager with American Airlines
- 27 Gulfstream Aerospace

Our meetings are held every other Thursday in Room E609 at 6pm. Club dues are only \$7 per semester.

Club officers are: Kris Koenig - President, Sabrina Petchel - Vice President, Warren Hinton - Secretary, Jimmy Hall - Treasurer. Our advisor is Dr. Boris Trnavskis.

If you need information, just drop a note in our mailbox in Student Activities.

Sigma Chi guy nabs thief

by Jere Thome
Chapter Editor

Well, the year has started out right and we all have a full head of steam. Of course there will be ups and downs along the way, but through teamwork we shall sustain our momentum.

Rush weeks went well. A highlight was Friday night of wet week, when the band "Alter Ego" entertained the large crowd of party-goers. The band consists almost entirely of Sigs from UCF. Overall, everyone seemed to have a real good time.

Thanks to everyone who donated blood to the Red Cross two weeks ago. In all, 339 units were collected, a healthy portion of which was given

by the AFROTC.

The house athletes have been working out, prepping for the intramural sports season. Kenny Bott is heading up the football team and has high hopes for a championship season.

NEWSFLASH! Thanks to brother Jeff Penn, an avionics thief was caught up at Sunrise Aviation in Ormond Beach last Tuesday night. After a buddy spotted the prowler on the flight line, Jeff gave chase and captured the man.

A body search turned up a sack and the tools needed to remove radios from aircraft. Police handcuffed and hauled the suspect away. Attaboy Jeff!

Vet's Club begins tale of club's history: the early years

by Sophie Gyory
Vet's Club Correspondent

The Embry-Riddle Veterans Association (ERVA), organized on June 28, 1968, is celebrating its twentieth year on campus. The ERVA was originally organized to maintain a liaison between the school and the veterans administration, and was officially chartered in October 1968 by Jack Hunt, then President of Embry-Riddle.

The ERVA was responsible for starting a used book store in December 1968, which was open to all students to resell their used books. The most expensive book that year was an incredible \$10.75!

They are also responsible for starting the off-campus housing office as a division of ERAU housing. At the time the off-campus housing office was

mostly used to help married students find housing, mainly because most students were married at the time.

The number of married members led to the formation of the ERVA Wives's Auxiliary in October of 1969.

The Auxiliary was responsible mainly for charitable events such as a Christmas party for disabled children. The Auxiliary also published a student directory in 1970. The spotlight that year was on the 14 coeds attending Riddle in September.

During the early seventies, the ERVA was the largest and most powerful organization on campus. Two-thirds of the Student Government Association were Vet's Club members, and two early SGA presidents were also Vet's Club presidents. The

Vet's Club was the organization to go to if you wanted something done on campus.

On April 1, 1973, the University decided to limit the enrollment of veterans to 10% of the total student body. The administration was also reduced to only 20% ex-military men.

The reason for this was it was generally felt that the school was becoming too military oriented and some action had to be taken. Tuition that year increased to \$700 a term.

Since its beginnings, the Vet's Club has tried to help both veterans and the rest of the student body. This year, we hope to increase our membership and have a lot of fun doing it. Join the Vet's Club and remember, if you don't talk, nobody is going to listen.

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.

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Don't Miss Out!

Delta Chi recovers after week of Dry Rush parties and parties

by Rich Hermes
Public Relations

Much to the surprise of the brothers, Dry Rush Fall '88 was a tremendous success. Turnout was more than expected which shows that dry rush is here to stay.

The Alpha Nu pledge class seems to have the potential to be one of the best pledge classes ever with the outstanding leadership of Jim "Balls" Immel. Again, for the second tri in a row, Mr. Fink has again set up a killer social schedule. The first event occurs this Friday with a F.U.B.A.R. Party with the company of the fine woman of Phi Mu sorority from Stetson University. A fun time should be had by all.

Under the supervision of J.D. Witzig, we now have teams participating in volleyball, flag-football and 3-on-3 basketball; once again to show Delta

Chi's total domination in all sports.

Important dates to remember:
Scholastic Dinner, September 29. Get your money to Haus for a gourmet dinner prepared by Chef Fink.

Founder's Day Banquet at the Daytona Hilton, October 29. Get your money in for all the Coca-Cola you can consume during the happy minute.

Last but not least, the Delta Chi Chorale meets at the house tonight at 5:00pm for a limited engagement at the Phi Mu House. Total participation is expected, and don't forget your colors. Pledges - don't forget your ties on Friday and brothers, again, remember your colors.

On a final note, a big, big thanks and congratulations to Glen Buhgoezlum for successfully organizing an outstanding road trip to Gainesville without letting it go to his head even

Marine Corps candidates trained at Quantico, Virginia between senior and junior years in summer camp Precision Flight Team and Skydiving Club sponsor demonstration

by Peter Lee
Marine PLC Secretary

For the thirteen Marine Corps PLC candidates, it was a tough but rewarding summer. Unlike the Army or the Air Force, the PLC program requires no on campus commitment. They are, however, required to spend two six-week summer training sessions in Quantico, Vir.

Seven of the thirteen successful students completed the six week junior course, while the other six completed the senior course. The seven who completed the junior course will return to Quantico between their junior and senior years to complete the senior officer candidate course.

Of the six students completing the senior course, one was a Summer A Embry-Riddle graduate, so he was

commissioned upon completion of OCS. That new lieutenant is Greg Reeder. Andy Melin, club president, was commissioned at the end of Summer B. Andy Shorter, club vice president was commissioned at the end of Summer A.

The new club president is Chris Welch. Anyone interested in becoming one of the "few and proud," keep an eye on the Board.

The ERAU Precision Flight Team and Skydiving Club put on a demonstration for the students of Spruce Creek High School on Thursday.

At 9:45 a.m., four members of the skydiving club began their jump from 9,000 feet. Aiming for the football field, three of the members were able to make successful landings in front of the awaiting students, while the fourth jumper, Chris

Nicholson was forced to land near power lines because of wind.

After the landing, the members of the Skydiving Club made a presentation to the students and answered questions about the sport of skydiving and the special skills involved.

Following the exciting display of skydiving, the Precision Flight Team made a presentation to the Aeronautics class on degrees avail-

able at Embry-Riddle, and covered basic aeronautical principles.

The Precision Flight and Skydiving teams make frequent stops at area high schools to promote Embry-Riddle and aviation in general.

Also present at each event is an admissions officer who distributes promotional pamphlets and application information.

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New Beginnings...

Astronauts for tomorrow's Space Shuttle Mission STS-26 pause during training Tuesday at Kennedy Space Center in Florida.

The crew (left), dressed in partially pressurized suits, will continue training which will end Thursday with a terminal countdown and demonstration test. From left are Mission Commander Frederick H. Hauck, pilot Richard O. Covey, and Mission Specialists Mike Lounge, David C. Hilmers and George Nelson.

The shuttle orbiter, Discovery, was readied Monday and yesterday with a closeout of the payload, flight crew equipment, additional experiments, orbiter software, and water payloads.

Mission STS-26 is scheduled for a 9:59am launch time, with a nominal four day mission. The landing is scheduled for a 7:55am PDT touchdown on Monday, October 3.

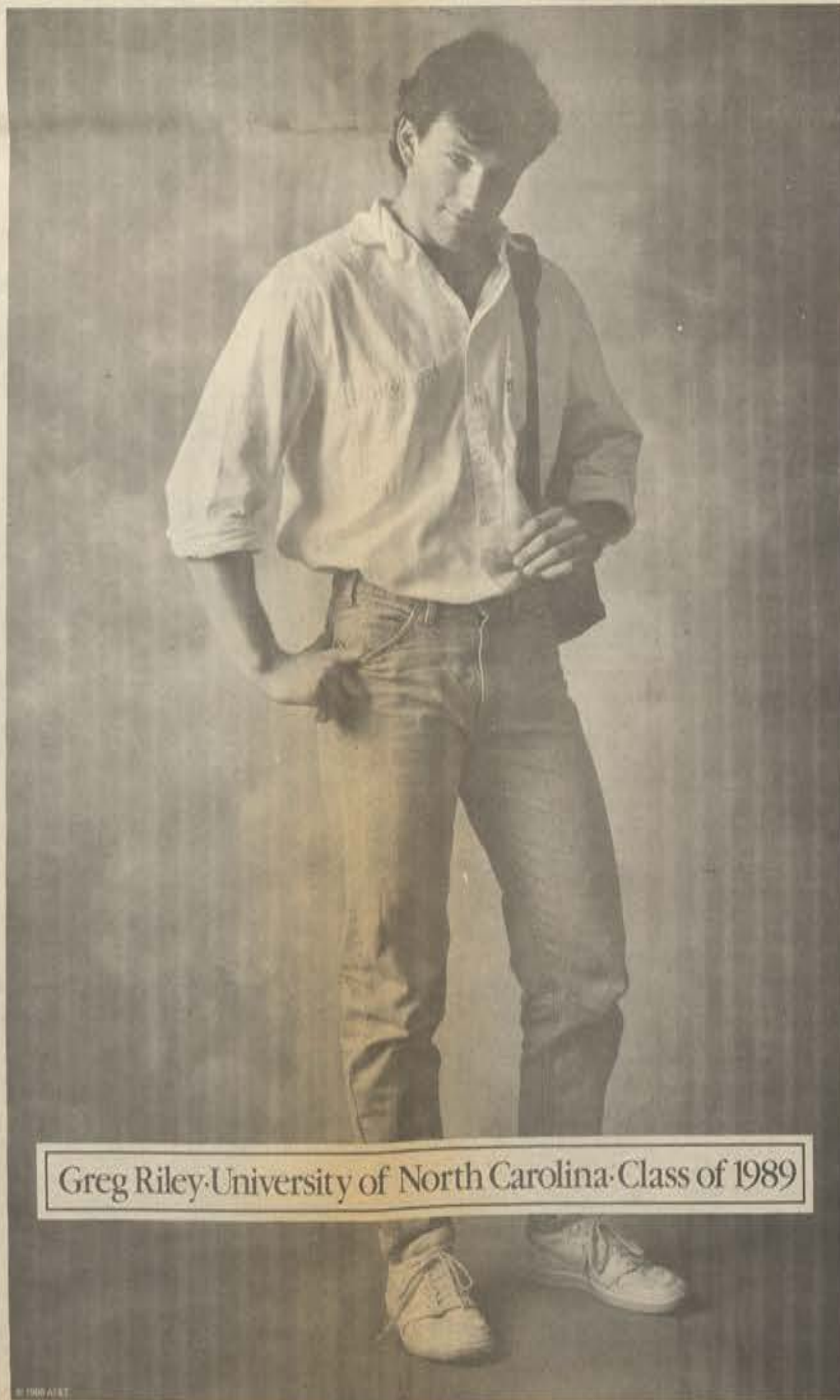
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Clint McHenry,
1986 U.S. Aerobatic Champion

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Discovery's Crew

Navy Capt. Rick Hauck

Commander

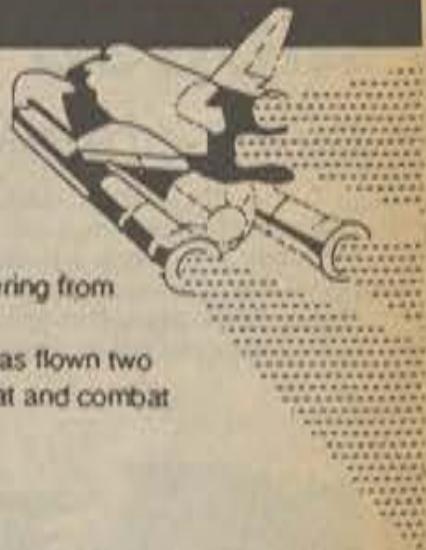
Age: 47

Family:

Wife, Dolly, a son, 23 and daughter, 25

Education: Master's in nuclear engineering from Massachusetts Institute of Technology.

Experience: A former Navy test pilot, has flown two previous shuttle flights. Flew 114 combat and combat support missions in S.E. Asia.



Air Force Col. Dick Covey

Pilot

Age: 42

Family: Wife, Kathleen, and two daughters, ages 12 and 14

Education: Master's in aeronautics and astronautics from Purdue University

Experience: A former Air Force fighter and test pilot, has piloted one other shuttle flight. Flew 339 combat missions in S.E. Asia and has flown more than 4,000 hours in many types of aircraft.

Marine Lt. Col. Dave Hilmers

Astronaut/Mission Specialist

Age: 38

Family: Wife, Lynn, and two sons, ages 9 and 12

Education: Master's in electrical engineering from U.S. Naval Postgraduate School.

Experience: Has been on one other shuttle mission.

Mike Lounge

Astronaut/Mission Specialist

Age: 42

Family: Wife, Kathryn Anne, two daughters, ages 17 and 4 and a son age 7

Education: Master's degree in astrophysics from University of Colorado.

Experience: A former Navy aviator and currently a member of the Texas Air National Guard, has been on one other shuttle mission. In charge of deploying \$100 million communications satellite.

George "Pinky" Nelson

Astronaut/Mission Specialist

Age: 38

Family: Wife, Susan, and two daughters, ages 13 and 15

Education: Master's degree and doctorate in astronomy from the University of Washington.

Experience: The only member of the crew without a military background, has been on two previous shuttle flights and has walked in space.

Mars viewing is best in 17 years

Associated Press

Mars will be the closest it has been to Earth in 17 years on Wednesday, making the planet easily visible to the naked eye in the southeastern sky around 9 p.m.

Harold Nations, assistant professor of astronomy at Franklin & Marshall College, said Tuesday that the fall sighting actually will be the best in 32 years.

"Mars will be 20 degrees higher in the sky than it was in 1971, when last viewed," Nations said. "We will have a chance to view it through significantly less atmosphere, which will make a clearer view."

"It should be the best viewing of Mars since 1956."

One reason scientists are fascinated with the planet is that it is the only one where the surface can be seen from Earth. The next closest planet, Venus, has a thick atmosphere and only the tops of its clouds can be seen, Nations said.

Jupiter and Saturn, beyond Mars, "are more like gaseous bags," the astronomer said.

Mars will be easily visible through the fall. However, Nations said people should not be disappointed by the planet's size. It is still 37 million miles away from Earth, making it appear the size of a nickel held at arm's length. Its brightness, not size, is what makes it stand out, he said.

Nations said a good telescope will help, giving people a "surprising amount of details," including the southern polar ice cap.

Like Earth, Mars has four seasons. But Nations said any similarity with Earth ends there. Mars has two moons and takes nearly twice the time to revolve around the Sun.

"Most people think the prospects of life on Mars are dim," Nations added with a note of caution. He refused to totally discount any possibility that a life form exists there.

SHUTTLE

(Continued from page 1)

afternoon to make final preparations for flight.

Commanding the crew is Navy Capt. Frederick Hauck. The pilot is Air Force Col. Richard O. Covey and the mission specialists are Marine Lt. Col. Dave Hilmers, George D. Nelson and John M. Lounge. All are veteran shuttle fliers.

During four days in orbit they are scheduled to deploy a communica-

tions satellite, conduct 11 science and technology experiments and check out more than 200 modifications made to the vehicle.

Most of the changes are intended to make the shuttle safer and were instituted after the Challenger explosion that killed seven crew members on Jan. 28, 1986.

The shuttle fleet has been grounded since the accident.

AP Graphics

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The Impression
by Rob Rohr

SKATEBOARDERS ... Diversion Editor is looking for skateboarders or freestyle bicyclers to cover The Swatch Impact Tour with the world's top professional skateboarders and freestyle bicyclers. If interested please contact Rob Rohr in the Avion office.

OCEAN CENTER ... America's electrifying entertainment sweetheart and the first artist ever to win the Country Music Association's coveted "Entertainer of the Year" award for two consecutive years (1980 and 1981), BARBARA MANDRELL, is returning to the Ocean Center on Friday, November 11 at 8:00 p.m. For more information contact the Ocean Center at 254-4500.

HOMECOMING ... The Second Annual Aviation Homecoming Festival will take place November 10-12. Like last year's homecoming event, this year's will coincide with Florida Aviation Week with many local airports having open houses.

The three day event will start with a speaker/comedian on Thursday evening followed by a Founders Day Barbecue with John Paul Riddle in attendance on Saturday. There will be an outdoor concert the next day.

If you are interested in helping with homecoming, contact either Becky Robertson, Associate Dean of Students or Kathy Novak, Director of Student Activities.

ENTERTAINMENT ... Entertainment has planned its first Attitude Adjustment of the year on Thursday, September 29, in the U.C. at 5:00 P.M.. The event will feature Chris Rich, a comedienne who uses props, gags and music in her act. The Flight Deck will be open and BEVERages will be served.

The movie this week will be the smash hit *Beetlejuice* starring Michael Keaton. It will be shown in the U.C. on Thursday at 8:30 p.m.

A Halloween concert/dance is planned for the evening of Oct. 29 with a yet undetermined group. Stay tuned for more information on this and other upcoming entertainment events.

If you're interested in helping out with Entertainment contact either Brad Kost or Joe Wallen in the Entertainment office located on the south side of the U.C.

Mickey Mouse turns 60

Walt Disney plans grand celebration

On November 18 the most famous mouse in the world will turn 60 years old and Walt Disney World in nearby Orlando is gearing up for a big birthday bash. With the celebration comes the opening of many new items to celebrate this event. Walt Disney has opened Mickey's Birthdayland in the Magic Kingdom. Also new is the Norway showcase at Epcot center - complete with a thrilling Viking voyage through the Maelstrom. Beginning Oct. 1, "Mickey's All-American Birthday Parade" takes place daily on Main Street U.S.A. Dancing scarecrows, acrobatic lumberjacks and lumberjills, southern belles, skateboarders and trick bikers, and all the Disney characters aboard Rockwellian American floats wish Mickey a happy birthday as the parade winds through the Magic Kingdom.

Also new is the southern mansion with Donald Duck and Daisy doing their Rhett and Scarlett imitation on their wisteria-covered front porch.

The first 768 rooms of Disney's family-priced Caribbean Beach Resort opens Oct. 1. The village is made up of clusters of two-story buildings. They are themed in Caribbean style - Trinidad, Martinique, Barbados, Aruba, Jamaica - that blend cool pastel walls, white-wood railings and vividly colored metal roofs.

Fall will give most visitors the opportunity to see "Illuminations" (presented by General Electric) at Epcot Center. The nightly 15-minute spectacular uses thousands of twinkling lights, scores of lasers, fountains, fireworks, color projections, spots and floods, plus global images appearing over, around, and in front of the 11 world showcase nations.

Disney's new flagship hotel, the Grand Floridian Beach Resort, is the first hotel built on the monorail line since 1971.

The 900-room hotel, recalling the fabled Florida beach resorts of the 19th century, is Disney's newest themed resort adventure. The Disney theme parks, Fort Wilderness Campground and the 12 other resorts on Walt Disney World property are open every day of the year. Epcot Center operates from 9 a.m. to 8 p.m., the Magic Kingdom from 9 a.m. to 6 p.m. with extended hours during busy vacation times.



Walt Disney World Photo

Happy Birthday...
All aboard on Disney's Railroad enroute to Mickey's 60th Birthday Party at the Magic Kingdom in nearby Orlando.

College Top 10 Albums

1. The Primitives (Lovely-Jones/RCA)
2. Big Audio Dynamite (Tighten Up Vol. 88 Columbia)
3. The Sugarbushes (Life/Too Good-Elektra)
4. Shriekback (Go Bang!-Island)
5. Siouxsie and the Banshees (Peep Show-Geffen)
6. Patti Smith (Dreamtime-Life-Arista)
7. Married to the Mob (Soundtrack-Repulse)
8. UB40 (UB40-A&M)
9. The House of Love (The House of Love-Creation/Relativity)
10. Hunters and Collectors (Fate-LRS/MCA)

Top 10 Albums

1. Tracy Chapman (Trajectory-Elektra)
2. Guns N' Roses (Appetite for Destruction-Geffen)
3. Def Leppard (Hysteria-Mercury)
4. Steve Winwood (Roll With It-Virgin)
5. George Michael (Faith-Columbia)
6. Huey Lewis and the News (Small World-Chrysalis)
7. INXS (Kick-Atlantic)
8. Robert Palmer (Heavy Nova-Elektra)
9. Van Halen (OU812-Warner Brothers)
10. D.J. Jazzy Jeff and the Fresh Prince ("He's the DJ, I'm the Rapper"-Jive)

Source: Billboard Hotline

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P195/60HR14	4/299**	4/364	4/313
P205/60HR14	n/a	4/367	4/327
P215/60HR14	4/313**	4/384	4/342*
P225/60HR14	4/316**	4/393	4/357**
P195/60HR15	4/313**	4/357	4/325
P205/60HR15	4/317**	4/363	4/337
P215/60HR15	4/328**	4/369	4/355
P235/60HR15	4/346**	4/386	4/357**
P215/65HR15	4/330*	n/a	4/362*

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Book Review



10 Healthy Eating Tips for the Harried College Student!

Learning to eat healthfully while at college does not have to take a full semester. Thanks to the nutritionists at Sweet 'N Low, a "crash course" is now available.

A new booklet, *10 Healthy Eating Tips for the Harried College Student*, provides advice for selecting and preparing quick and nourishing

meals and for dieting safely. For those who hold late-night study sessions, there are suggestions for low-calorie snacks.

To order your copy of this booklet, send a check or money order for fifty cents to cover postage and handling to: Cumberland Packing Corporation, 60 Flushing Ave., Dept. CS, Brooklyn, NY 11205.



Mission Earth Volume 1, the Invader's Plan

From its opening pages, *Mission Earth Volume 1, the Invader's Plan*, hurls its main characters and the reader into a fiercely paced, broadly comic, series of adventures and misadventures, plots and counter-plots. In the captivation continuation of L. Ron Hubbard's epic ten-volume *Mission Earth* series, *Volume 2, Black Genesis* begins with a faster-than-light spacecraft, hidden by darkness, landing in a secret mountaintop base in Turkey.

The hero, fleet combat officer Jettero Heller, whose mission will determine the fate of earth, is swept away from continent to continent, city to city, with a headlong rush of car chases and crashes, bombings, hand-to-hand battles, and much more.

The first two volumes of *Mission Earth, the Invaders Plan* and *Black Genesis*, are available wherever paperbacks are sold. This is one adventure you won't want to miss.

Record Review

The Story of the Clash Volume I - Epic

All right all you punk rockers, here's what might be the best record released by the Clash since *Sandinista*. This two record album contains many of the group's big hits and a few seldom heard songs. Joe Strummer shines on this double album with hits like "London Calling," "White Man in Hammersmith Palais," and the song that started the punk movement in England "White Riot".

The other driving force behind the Clash, Mick Jones, also is well represented with songs like "Stay Free" and the top 20 hit "Should I Stay Or Should I Go."

If your a Clash fan or just like punk music, this a plus for your collection.



Dead Ringers is one dead ringer

by Ervin Dampier
Avion Staff Reporter

Produced by David (The Fly) Conenburgh and Mark Bopyman. Directed by David Conenburgh. Released by 20th Century Fox. Now showing at the Volusia Square 8 Theater. Rated R.

Dead Ringers stars Jeromy Irons as Beverly and Elliot Mantle who are twin bothers and successful gynecologists. The two are involved with helping infertile women to become pregnant in a revolutionary way.

Beve and Elliot are emotionally connect but Beve is the sensitive, yet unstable, of the two (though he does have a great sense for business). Elliot on the other hand is the more sexual outgoing of the two, and a far superior scientist.

Also starring Genevieve Bujold as the women in their life and, you guessed it, is incapable of bearing children who also is a nymphomaniac. Well, this should set up an interesting plot but it doesn't. The movie rotates around the emotional conflict between Elliot, the older and more experience lover, and Beve, the younger inexperience of the two, with Genevieve caught in the middle of this mindless and sometimes comical battle. The major conflict is whatever emotional feeling the two bothers can feel each other so the bothers decide to try to rid them of this problem by using their radical surgery. If you like blood and gore, then this seen you'll like.

Well, the movie ends with both of the bothers dying, and it left this viewer bored. The plot starts off right but just drags on with boring emo-

tional battles and a few skin show thrown in to hummer the audience. There should have been more about their radical surgery and how the bothers were similar.

No Academy Award in this film's future.

Our Rating:

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

Entertainment

"HILARIOUS - A MUCH BIGGER GUT-BUSTER THAN 'GHOSTBUSTERS'!"
Keaton's **BEETLEJUICE** is one of the biggest, baddest wolves a ghost movie has ever unleashed. a polter-gas.
—DAVID BROWNE, THE VILLAGE VOICE

"Sheer off the wall audacity, wildly playful visual effects."
—DAVID ANNE, **TELEVISION**

Michael Keaton is **BEETLEJUICE**
The Name In Laughter From The Heistler

The Griffin Company presents a Jim Belushi film, "Beetlejuice". Star Belushi in *Death Wish*, *After Hours*, *California* (with Warren Beatty), and *Michael Keaton* in *Backdraft*, *Time to Dance* (Dino), stars in *Michael Keaton's* *Beetlejuice*, screenplay by Michael McDowell and Robert Swenson, produced by Michael Haskin, Larry Shubin, and Richard Rothman. PG-13 parents strongly cautioned. Check for the Jim Belushi.

Showing this Thursday at 8:30 p.m. in the University Center.

Movies

Volusia Square 8

- Die Hard* (R) 7:30, 10:15, 12:30
- Nightmare on Elm Street Part 4* (R) 8:00, 10:15
- Kansas* (R) 7:45, 10:15, 12:15
- Moon Over Parador* (PG-13) 7:30, 9:45
- Bagdad Cafe* (R) 7:30, 9:55
- Dead Ringer* (R) 7:30, 9:45
- A Fish Called Wanda* (R) 7:30, 9:45
- Coming to America* (R) 7:45, 9:55

Volusia Mall 1-3

- Not of This Earth* (R) 7:45, 9:45
- Crocodile Dundee II* (PG) 7:35, 9:40
- Cocktail* (R) 7:55, 9:55

Volusia Plaza 4-9

- Messenger of Death* (R) 8:05, 10:00
- Portray* (R) 7:00, 9:30
- Young Guns* (R) 7:55, 9:55
- Who Framed Roger Rabbit* (PG-13) 7:45, 9:50
- Big* (PG-13) 8:40, 9:40
- Married to the Mob* (R) 7:25, 9:45

Daytona 6

- Midnight Run* (R) 7:30, 9:55
- Clean and Sober* (R) 7:45, 10:15
- Hot to Trot* (PG-13) 7:30, 9:55
- License to Drive* (PG-13) 8:00, 10:15
- Hero and the Terror* (R) 7:45, 10:15
- Dead Pool* (R) 8:00, 10:15

Concerts

Orlando

George Michael, 10/23, Citrus Bowl
Peggy Lee, 10/29, Tupperware Center

Tampa

B.B. King, 11/11, Tampa Bay Performing Center
Robin Trower, 10/28, Busch Gardens

Miami

Miami Sound Machine, 9/30, 10/1, Miami Arena
George Michael, 10/29, Orange Bowl

St. Petersburg

Grateful Dead, 10/15, 10/16, Bayfront Center (Sold Out)

Kissimmee

Lee Greenwood, 10/21, Osceola County Stadium

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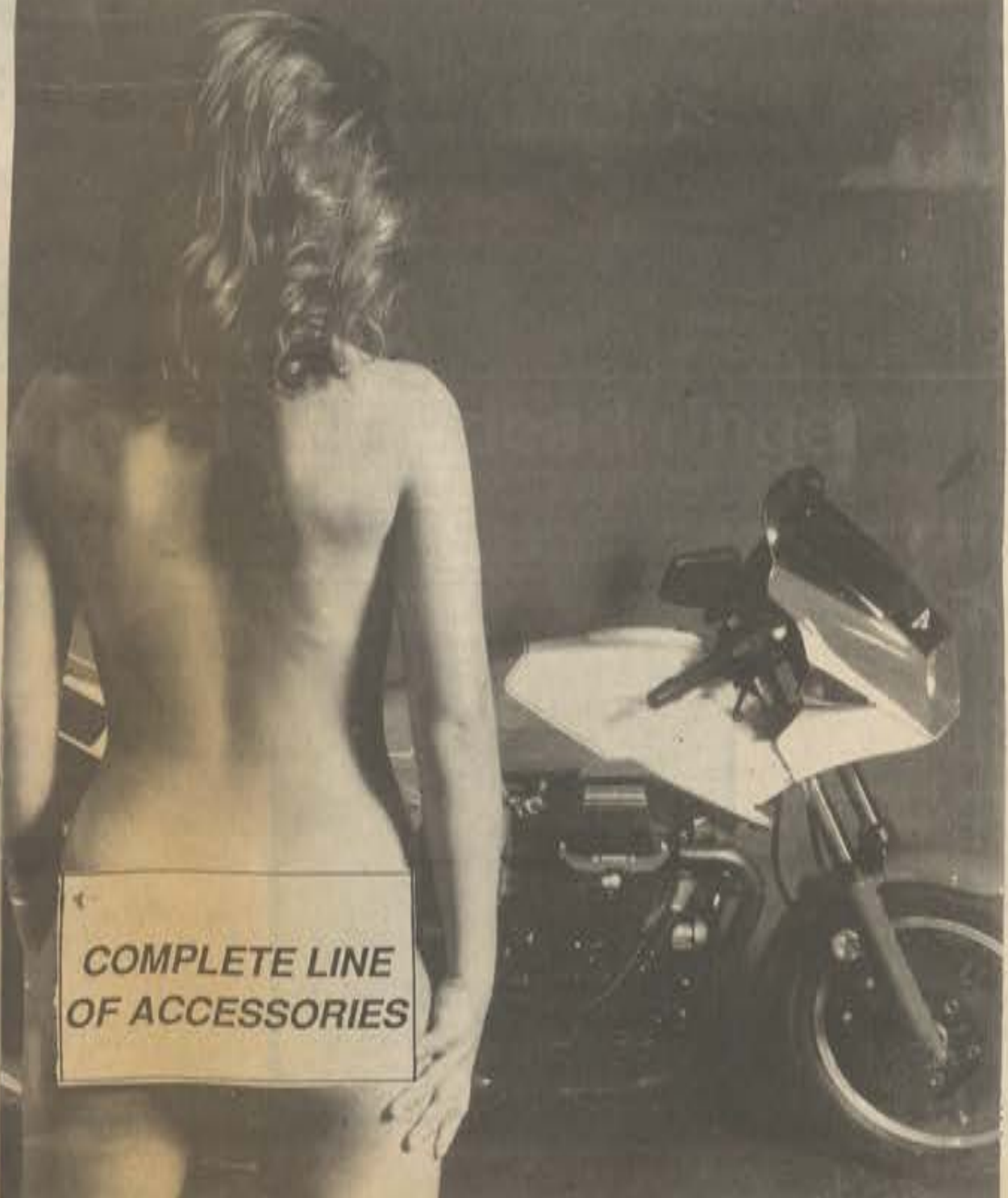
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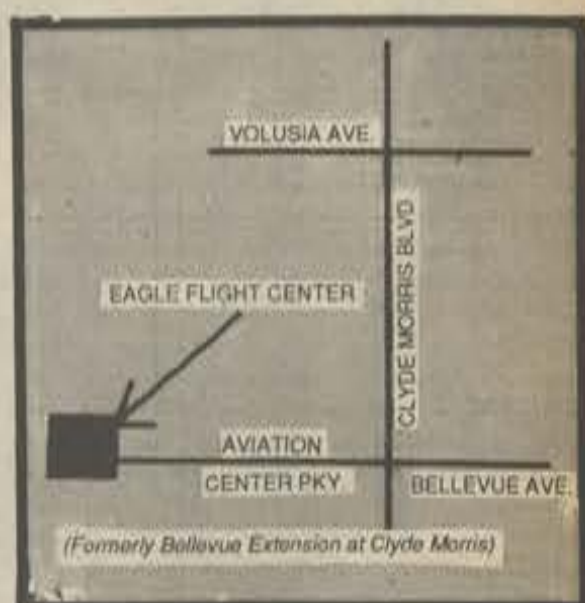
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LETTERS

(Continued from page 2)

Senseless Vandalism

To the Editor:

It has been recently brought to my attention that cars in the Embry-Riddle parking lot are being vandalized by a procedure known as 'keying.'

By definition, a key or similar metallic object is placed against the paint of a vehicle as the vandal walks by, thereby scratching/removing paint from the vehicle. Damage to the vehicle is so significant that a new paint job is usually required an unnecessary expense of about \$400 - \$2000. I take a great deal of pride in my vehicle and would rather endure personal injury and physical pain, than be victimized by a jealous coward's deliberate actions.

Riddle Security is not prepared to guard against such vandalism, and the Administration feels that it is their responsibility to provide adequate parking for students, but not their responsibility to provide protection for the lucky few who find a parking spot.

My car has not yet been vandalized, but my friend's cars have been. We are looking for the sniveling wimp that vandalized these cars. I would like other students to also watch for this clown, and take proper measures by a) getting a good physical description, or more importantly, a name; b) type of vehicle he drives or license plate number; c) Dorm room number or address off campus.

Please report all information to ERAU security, because there is a REWARD if this idiot is caught and convicted.

But more important to this vandal is the fact that I am looking for him now, and if I catch him before the proper authorities, I promise to beat him senseless and cut off his ...!

Priority Problems

To the Editor:

Does the school really care about the students? It is amazing how much money the school is willing to put towards the additions to the library and computer lab but they

won't even keep them open a few extra hours so they are more accessible to the students.

On this past Sunday night I went to the computer lab two hours before it was suppose to close, when I asked for a computer they told me the lab was closing because they failed to schedule any one to work the final shift.

Like many students I am forced to use the library and computer lab at night. I would like to go to these two facilities during the day but my busy class schedule in the morning and work in the afternoon only allow me a few hours in the evening to do homework on campus.

What would help the students would be to let them use the library and computer lab at night and possibly make a few vending machines accessible to students while they are studying. There is no doubt that I want a three story library and a super-modern computer lab but I will settle for a half decent set of facilities that I could use. So, perhaps, the university should think a little more about its priorities.

David Rovka
Box 2574

Police issue citation to partying students who broke noise level at Miami University

OXFORD, Ohio (AP) Police officers who were sent to a Miami University students' party because neighbors complained about the noise wound up issuing a citation because students chanted the Pledge of Allegiance too loudly.

Police said there were 150 to 200 revelers attending the Sept. 10 party at a student's house in this college town.

When police officers arrived for their second dispatch to the party location that night, Miami junior Bob LeBoeuf led the crowd in pledging to the flag. Officers said the chant pushed the sound level recorded by the police noise meter over the 70 decibels allowed by Oxford's noise ordinance.

"I thought it'd be funny," LeBoeuf said. "What are the police going to do with 200 people standing around saying the pledge patriotic?"

"The whole (presidential) campaign has made such a big deal of the pledge, I thought it was something people would get a kick out of," said LeBoeuf, who stood on a trough of beer kegs and ice to lead the pledge.

"The officers were kind of laughing when they took the meter reading," said Karen Stevens, 21, who lives at the house where the party was conducted. "People weren't saying it in any hostile way. They had smiles on their faces and some had hands over their hearts. No big deal, we thought."

Oxford's city ordinance restricts noise levels to 70 decibels most times and 55 decibels overnight.

Mayor Roy Young Jr., who owns an Oxford business and attended the party on an invitation by one of his employees, said most students behaved acceptably, with a few exceptions.

KNABE

(continued from page 1)

from Middle Tennessee State University in Murfreesboro, Tenn., the title of his Master's thesis being *Regulation of United States Aircarriers: The Case of the Supplemental Airlines.*

Knabe came to Embry-Riddle in the Spring of 1976. During his 13 years here, he has taught Management, Principles of Transportation, Economics (Macro, Micro, Labor & Airline), Air Cargo, Airline Management, Trends and Current Problems in Aviation, International Developments, and Travel and Tourism.

Knabe has served as Program Chairman of the Aviation Maintenance Management program and currently is the representative from Aviation Business Administration to the Faculty Senate. Occasionally, Knabe teaches Basic Economics at Stetson University in Deland.

The International Airline Management Training Institute in Montreal also employs Knabe as an adjunct professor. The Institute is operated under the auspices of the Canadian government. Seminars are scheduled for senior airline management personnel and the Institute sends Knabe to the location designated.

For example, Knabe's 1989 schedule will have him traveling to India, Africa, and Canada for three one day seminars. As one can imagine, Knabe must be the top of the line to be called upon for such seminars.

At this time, he is still continuing his education, having taken some courses from Florida Atlantic University and currently working for a Doctorate of Business Administration with Nova University. He expects to complete the Doctorate next year. If approved, his dissertation will involve research in human factors relating to pilot shortages.

Knabe says, "there are plenty of pilots, but we are developing a shortage of pilots suitably qualified for the airlines." When one considers the retirement of current pilots and the fact that the FAA is receiving fewer pilot applications each year, the shortage of qualified pilots could become critical. Not only are current pilots reaching the age for retirement, but due to high salaries

many are retiring at an early age. The hope is that his research will aid the industry as well as this University in providing a pool of qualified pilots for the future.

For the past year, Knabe has represented Embry-Riddle as the coach of the ERAU Tennis Team, which will play its first varsity season this year. The Varsity Tennis Team consists of eight members (six player with two alternates). The team will sponsor a tennis tournament for Homecoming 1988 on Nov. 11, in which alumni, students, faculty, staff and friends of the University are welcome to participate. President Tallman and Chancellor Doten are already scheduled to play.

The tennis team practices every afternoon, currently playing at Indigo Lakes Golf and Country Club. "We are always looking for new blood". Knabe encourages all students who are interested to come by. "You don't have to be an expert."

Family activities are very important to Professor Knabe, his wife Patricia, and his five-year-old son Michael. They love to participate in tennis, swimming, and soccer, traveling, eating good foods, and entertaining.

This week, Knabe's sister arrives in the United States for a visit from behind the Iron Curtain. "I have only seen her for about 10 days in the past 35 years." He is very excited about the reunion.

Professor Knabe would like to stress the importance of the cooperative education program to Embry-Riddle students. "Students who co-op find it easier to get a job with the co-op firm, or with another company based on experience." He stresses that co-op is not an easy three or six credits and even though one may graduate a term or two later, "it doesn't set you back - it puts you ahead."

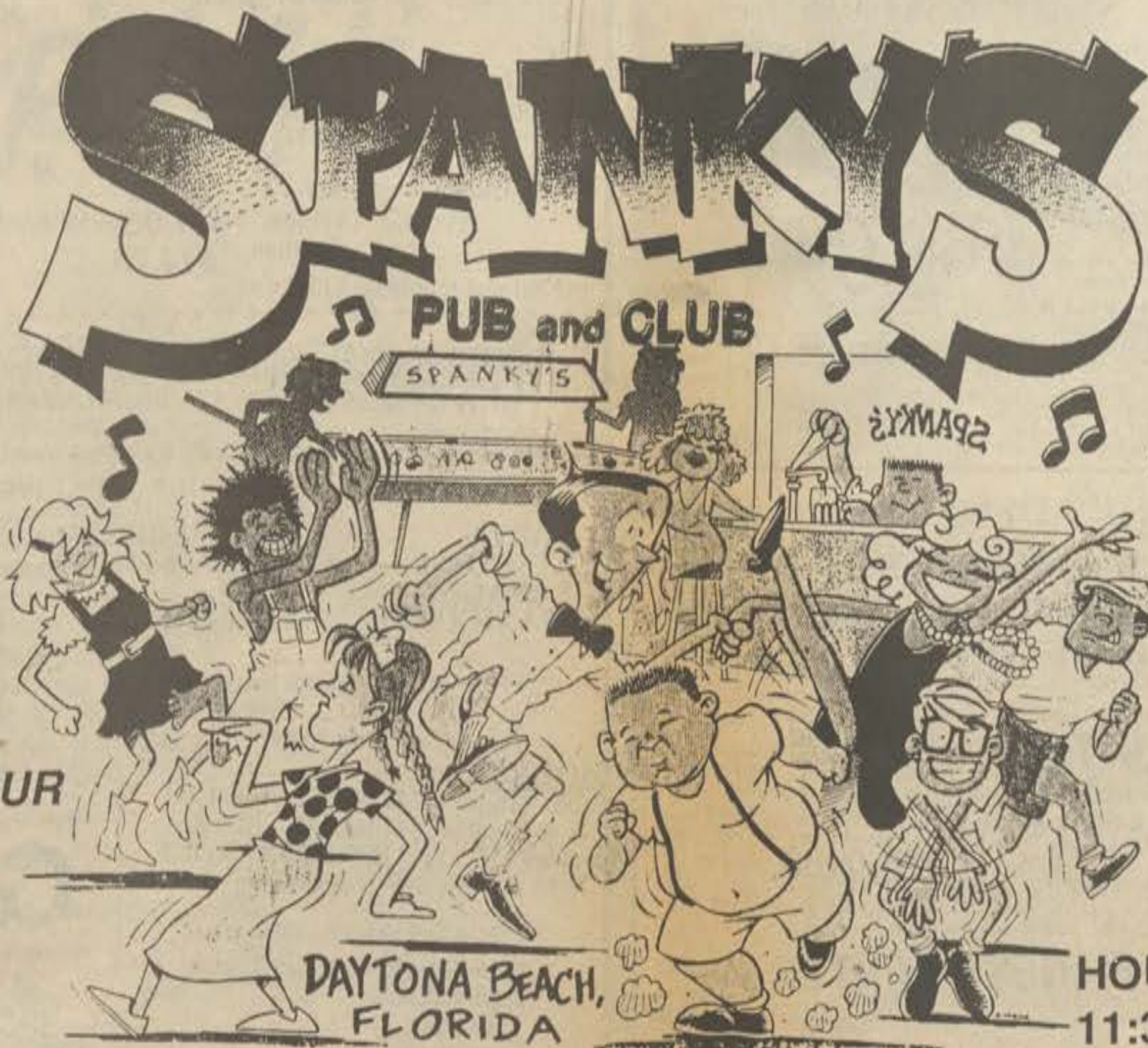
Also, Knabe stresses that students should "use time to your advantage and be flexible." Most people have one or more career changes in their lifetime and must be able to accommodate change. "There are no more flight engineers, navigators or radio operators. Be flexible! Learn as much as you can!"



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American League									
	W	L	PCT	GB	LAST 10	STREAK	HOME	AWAY	
EAST									
Boston	88	67	.568		6-4	Won 1	52-25	35-42	
Chicago	84	72	.538	4 1/2	7-3	Won 2	47-31	37-41	
Minnesota	84	73	.535	5	7-3	Won 1	45-34	39-39	
New York	82	72	.532	5 1/2	6-5	Lost 1	46-34	36-38	
Toronto	81	79	.518	7 1/2	7-3	Lost 1	40-38	39-39	
California	74	83	.471	15	3-7	Lost 1	38-35	34-47	
Baltimore	-1	101	.344	34 1/2	2-8	Lost 2	33-43	29-58	
WEST									
Los Angeles	100	56	.641		6-2	Lost 1	58-26	48-30	
Atlanta	87	68	.558	13	6-4	Won 4	43-30	44-37	
Seattle	81	74	.523	18 1/2	4-6	Lost 1	41-33	40-41	
Columbia	79	82	.478	25 1/2	2-8	Lost 7	35-46	40-38	
Chicago	67	87	.438	32	5-5	Won 1	38-43	29-44	
Texas	67	87	.433	32	3-7	Lost 2	38-43	29-44	
Seattle	65	90	.419	34 1/2	6-4	Won 2	31-40	30-48	

National League									
	W	L	PCT	GB	LAST 10	STREAK	HOME	AWAY	
EAST									
Los Angeles	90	56	.615		9-1	Won 2	53-24	43-34	
Pittsburgh	83	71	.539	13	6-4	Won 1	47-36	41-35	
Montreal	78	77	.503	18 1/2	5-5	Lost 1	40-34	38-43	
St. Louis	74	80	.474	23	4-8	Lost 2	41-40	33-42	
Chicago	73	82	.471	23 1/2	4-8	Lost 1	37-41	38-41	
Philadelphia	61	94	.394	35 1/2	2-8	Won 1	36-41	25-53	
WEST									
Los Angeles	91	64	.587		7-3	Lost 1	43-35	48-29	
Cincinnati	84	71	.542	7	6-2	Won 7	43-34	41-37	
Houston	80	78	.513	11 1/2	2-8	Lost 3	44-34	38-42	
San Francisco	80	78	.513	11 1/2	5-5	Won 1	43-35	37-41	
San Diego	78	77	.503	13	6-5	Won 4	46-35	32-42	
Atlanta	52	102	.338	38 1/2	3-7	Lost 8	27-49	25-53	

How the AP Top 20 fared

- Miami 3-0-0 beat Wisconsin, 23-3
- UCLA 3-0-0 idle
- Oklahoma 2-1-0 lost to Southern Cal., 23-7
- Auburn 3-0-0 beat Tennessee, 38-6
- Southern Cal. 3-0-0 beat Oklahoma, 23-7
- Georgia 3-1-0 lost to South Carolina, 23-10
- LSU 2-1-0 lost to Ohio State, 36-33
- Notre Dame 3-0-0 beat Purdue, 52-7
- Florida State 3-1-0 beat Michigan State, 30-7
- Nebraska 3-1-0 beat Arizona State, 47-16
- West Virginia 4-0-0 beat Pitt, 31-10
- Clemson 3-1-0 beat Georgia Tech, 30-13
- Alabama 2-0-0 beat Vanderbilt, 44-10
- South Carolina 4-0-0 beat Georgia, 23-10
- Penn State 2-1-0 lost to Rutgers, 21-16
- Pitt 2-1-0 lost to West Virginia, 31-10
- Washington 3-0-0 beat San Jose State, 35-31
- Oklahoma St. 2-0-0 beat Texas A&M, 52-15
- Michigan 1-2-0 beat Wake Forest, 19-9
- Florida 4-0-0 beat Mississippi State, 17-0

KYLE'S FOOTBALL POOL

* KYLE'S 60.0%

Buffalo	at	Chicago *
* Cincinnati	at	LA Raiders
* Cleveland	at	Pittsburgh
Denver	at	San Diego *
Detroit	at	San Francisco *
Green Bay	at	Tampa Bay *
* Houston	at	Philadelphia
* Indianapolis	at	New England
* Kansas City	at	New York Jets *
* Minnesota	at	Miami
* New York Giants	at	Washington
Phoenix	at	LA Rams *
* Seattle	at	Atlanta

TIEBREAKER: Predict the score of one game. List teams with scores.

NAME:

PROGRAM:

ERAU BOX AND PHONE:

Rules of the contest: Circle the team that will win the game. Return the game card to the Avion or drop in Campus mail by the Friday before the games. The winner will be posted and will receive a Free pitcher of beer or soft drink at Spanky's Pub and Club during Monday Night Football.

Last weeks winner was Leigh Barratt, an Aeronautical Studies major. He correctly guessed 11 of 13 games.



NBA EXHIBITION GAME
SUNDAY, OCTOBER 16, 1988 - 8PM

MIAMI HEAT
VS
CLEVELAND CAVALIERS

TICKET PRICES ARE \$15 and \$12.50 reserved and go on sale Monday, September 19, 1988

NFL SCORES

AMERICAN CONFERENCE									
EAST									
	W	L	T	Pct.	PF	PA	Vs.	Div.	
Buffalo	4	0	0	1.000	74	58	2-0		
NY Jets	3	1	0	.750	88	44	0-1		
Indianapolis	1	3	0	.250	59	70	1-0		
Miami	1	3	0	.250	50	75	0-2		
New England	1	3	0	.250	54	66	1-1		
CENTRAL									
Cincinnati	4	0	0	1.000	90	67	2-0		
Houston	3	1	0	.750	89	100	0-0		
Cleveland	2	2	0	.500	49	67	0-1		
Pittsburgh	1	3	0	.250	93	104	0-1		
WEST									
San Diego	2	2	0	.500	57	87	2-0		
Seattle	2	2	0	.500	65	79	2-1		
Denver	1	2	0	.333	61	44	1-2		
LA Raiders	1	2	0	.333	76	73	1-0		
Kansas City	1	3	0	.250	56	74	1-2		
NATIONAL CONFERENCE									
EAST									
Dallas	2	2	0	.500	74	70	1-1		
NY Giants	2	2	0	.500	87	95	2-0		
Phoenix	2	2	0	.500	88	83	1-1		
Washington	2	2	0	.500	89	96	1-2		
Philadelphia	1	3	0	.250	96	82	0-1		
CENTRAL									
Minnesota	3	1	0	.750	100	47	1-0		
Chicago	3	1	0	.750	82	67	1-1		
Detroit	1	3	0	.250	65	73	0-0		
Tampa Bay	1	3	0	.250	60	94	1-0		
Green Bay	0	4	0	.000	40	95	0-2		
WEST									
LA Rams	4	0	0	1.000	118	65	0-0		
New Orleans	3	1	0	.750	97	78	1-1		
San Francisco	3	1	0	.750	109	91	1-1		
Atlanta	1	3	0	.250	92	103	1-1		

Next Week...
A Complete List of
How the U.S. did
at the Olympics

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- 14" pizza -- \$5.75
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ERAU
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Sunday 12:00 AM - 11:00 PM

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Just Five Minutes From ERAU

Dodgers' Hershiser goes for sixth win in a row

Associated Press

Orel Hershiser, by pitching another shutout in his last regular season start, would pass Walter Johnson and pull into a virtual tie with another Hall of Famer.

"Another shutout? Six in a row? That would be unheard of. It's only happened once in baseball history," the Los Angeles Dodgers' right-hander said after getting his fifth straight with Friday night's five-hit, 3-0 victory over the San Francisco Giants.

"But I'll go out and try to put up as many zeroes as possible, not because of the record, but to win," he said. "I want to stay hot through the playoffs."

With his major league-leading 23rd victory, Hershiser put the Dodgers in position to clinch the National League West title.

Don Drysdale, the former Dodger star elected to the Hall of Fame in 1984, is the only pitcher to ever record six consecutive shutouts. He accomplished the feat in 1968 en route to another still-standing record, 58 2/3 consecutive scoreless innings.

The American League record for consecutive scoreless innings is 55 2/3 by Johnson in 1913. He made two relief appearances during his streak.

Hershiser's next scheduled start is Wednesday against San Diego. A controversial call by umpire Paul Runge in the third inning Friday night took a San Francisco run away, so the Giants considered the shutout a somewhat tainted one.

"But Harry Wendelstedt made a call in 1968 that made a difference, too," noted Brett Butler, the player called out for interference on the shutout-saving play Friday night.

"Pitching shutouts in the major leagues is one of the greatest accomplishments for an athlete. Five in a row is incredible," Butler added.

In 1968, also in a Giants-Dodgers game, a pitch by Drysdale hit Dick Dietz with the bases loaded. But Wendelstedt ruled that the batter made no attempt to get out of the way, no run was forced home and Drysdale got out of the inning, the 47th in his streak.

Runge said that Butler, sliding into second base, "clearly gave up the attempt to go for the bag" and went too far right of the base to obstruct shortstop Alfredo Griffin as he threw to first trying to complete a double play.

The throw was wild, the Giants' Jose Uribe came home from third on the play, and the Candlestick Park scoreboard read 1-0 Giants.

Then Runge's thumb went up, signaling an inning ending double play.

"I just ran off the field as fast as I could. I didn't want him to change his mind again," Hershiser said.

The scoreless tie was broken up in the eighth when Mickey Hatcher hit his first homer of the season, with two on, off Adee Hammaker, 8-9.

Tennis News

by Coach Rudy Knabe

For all interested in the sport of tennis good news is here! Our Varsity team currently works out at Indigo Lakes Resort. If you are interested in tennis we invite you to come out on Thursday, September 29th, and/or Friday, September 30th. Both days between 2:00 and 4:00 P.M. we will hold open try-outs for a spot on the varsity team. Let us see you hit your best shot.

For those who are interested in playing recreational tennis we will start a Saturday morning session for all interested persons - beginners to advanced players, beginning October 8th, at 9:00 A.M. If you are interested please call extension 6731.

All students - female and male - are invited.

Intercollegiate Basketball Games Schedule 1988-1989

Fri. Nov. 4	Hillsborough C.C.	HOME
Tue. Nov. 8	Central Florida C.C.	Ocala
Wed. Nov. 9	Daytona Beach C.C.	HOME
Fri. Nov. 11	Gordon College	HOME
Thur. Nov. 17	Seminole C.C.	Sanford
Sat. Nov. 19	Daytona Beach C.C.	Daytona Beach
Tue. Nov. 22	Flagler College	St. Augustine
Fri. Nov. 25	Thanksgiving Tourn.	Cocoa
Sat. Nov. 26	(GAME TIMES: 6:00 - 8:00 PM)	
	- Brevard C.C. (Host)	
	- Indian River C.C.	
	- Florida Jr. College	
	- Embry-Riddle Aero. Univ.	
Mon. Nov. 28	Lake City C.C.	Lake City
Fri. Dec. 2	Valencia C.C.	Orlando
Tue. Dec. 6	Brevard C.C.	Cocoa
Thur. Dec. 8	Berry College	HOME
Fri. Dec. 9	Lake Sumter C.C.	Leesburg
Mon. Dec. 12	Lake City C.C.	Lake City
Fri. Jan. 13	St. Thomas Univ.	Miami
Fri. Jan. 27	St. John's C.C.	Palatka
Sat. Feb. 4	Edward Waters College	Jacksonville
Thur. Feb. 9	Flagler College	St. Augustine
Sat. Feb. 11	St. Thomas College	HOME

HOME GAMES to be played at the Daytona Beach Community College College Gym.

(GAME TIMES: 7:30 PM) FOR BOTH HOME AND AWAY unless otherwise noted.

ERAU Soccer team starts off season with a victory

The recently reorganized Embry Riddle soccer team got off to a respectable start last weekend, bringing home one win and one loss from a pair of back to back away games. September 24th saw the Eagles defeat Brevard Community College at Brevard. Cesar Mendosa scored first in the first half of the game to put the Eagles ahead 1 to 0. Brevard came back strong however and managed to score twice by half time. During the second half the Eagles missed few scoring opportunities and put themselves ahead to win the game with goals coming from John Rathman and Mark Packson. The final score was 3 to 2.

was somewhat less successful for the Eagles. The second game of the weekend was with University of Florida in Florida stadium at Gainesville. The Gators took the lead very early in the first half, and were ahead by two when the Eagles scored minutes before half time. The goal came from Max Anthony with the assist coming from Connen "Dino" Peters. The Eagles dominated the second half, possessing the ball most of the time, but weren't able to cap off the rally with a goal. The final score was 2 to 1. The next Eagle soccer game will be away at Brevard (a tournament) on Saturday, October 8th. Times and details will be posted around campus.

Intramural Sports

Swim meet results

50 yd Backstroke	1st Mike Makarczyk 27.94	2nd Steve Wright 31.43
100 yd Individual Medley	1st Mike Makarczyk 59.27	2nd John Moore 1:04.46
200 yd Medley Relay	1st Stacey Cummings 1:55.53	2nd Derek Berquist 2:01.69
50 yd Butterfly	1st Mike Makarczyk 23.91	2nd John Moore 26.03
50 yd Breaststroke	1st Dan Campbell 32.67	2nd Tim Kincannon 32.95
50 yd Freestyle	1st Tim Kincannon 24.08	2nd Kosta Polytronakis 24.22
100 yd Freestyle	1st Mike Makarczyk 50.33	2nd Eric Burkholder 56.81
	Mike Makarczyk	Eric Burkholder
	Jon Kalic	Dennis Heffelfinger
	Brian Whiting	

Upcoming events

EVENT	SIGN-UP BY	PLAY BEGINS
RACQUETBALL DBLS. TOURNAY	MON., 10/17	FRI., 10/21
7/7 SOCCER	MON., 10/17	SUN., 10/23
16 INCH SOFTBALL	MON., 10/17	TUES., 10/25
WALLYBALL TOURNAMENT	MON., 10/17	FRI., 10/28
OVER-THE-LINE SOFTBALL	TUES., 10/18	THURS., 10/27
MINIATURE GOLF TOURN.	MON., 10/24	THURS., 10/27
GOLF TOURN. & SPEC.	MON., 10/24	WED., 10/26
FLOOR HOCKEY	MON., 10/24	MON., 10/31
TENNIS SINGLES	MON., 10/31	FRI., 11/4

Sign-up NOW and participate in these exciting activities. For additional information concerning these events or other upcoming events, please go to the Recreation Department office in the building beside the pool.

THE SEABREEZE CONNECTION



DAYTONA'S HOTTEST NIGHT CLUB

SUNDAY-- SOLID GOLD DANCE CONTEST
WIN OVER \$500 IN GOLD FROM BOJANGLES FINE JEWELRY-LADIES
DRINK FREE 8 TO 11

MONDAY-- CARIBE BIKINI CONTEST
\$100 CASH TO THE WINNER BIKINIS SUPPLIED BY 'BIKINI BEACH' 2-4-1
DRINKS ALL NIGHT

TUESDAY-- "LADIES NIGHT" LADIES \$1 DRINKS ALL NIGHT
MEN'S REDUCED DRINK PRICES ALL NIGHT

AMATEUR MALE DANCE CONTEST- \$100 PRIZE

WEDNESDAY-- WET "T" SHIRT CONTEST
WINNER GETS \$100 2 FOR 1 DRINKS ALL NIGHT

THURSDAY-- MINI-SKIRT CONTEST
WINNER GETS \$200 FROM TANANA EVERYONE DRINKS FROM 8-11 PM

FRIDAY & SATURDAY-- ROCK IN WEEKEND
2 FOR 1 DRINKS 8 PM-3 AM PARTY ALL NIGHT WITH DAYTONA'S #1 NIGHT CLUB

- 2 DANCE FLOORS
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- Makes You Feel Like Dancing!
- LAZER LIGHT SHOW
- 4 BARS
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- CROWD IN TOWN AND
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Giant T.V. Screens
Satellite Reception
Pool & Game Room

- WEEKLY LUNCH SPECIALS, Served 11:30 a.m. - 2:30 p.m.**
- MONDAY MEATBALL SANDWICH**
with Parmesan Cheese and Peppers; served with a choice of French Fries or Coleslaw and a Beverage...\$2.95
 - *HERO SUB SANDWICH**
served with a choice of French Fries, Potato Chips or Coleslaw and a Beverage...\$3.25
 - TUESDAY FRESH FRUIT PLATE**
served with a Beverage...\$2.95
 - *LARGE STUFFED TOMATO**
with Shrimp or Tuna Salad; served with Coleslaw and a Beverage...\$3.75
 - WEDNESDAY CHICKEN FRIED STEAK**
with Mashed Potatoes, Gravy and a Beverage...\$2.95
 - *OPEN FACED GRILLED CHEESE**
with Bacon and Tomato; served with French Fries and Beverage...\$3.95
 - THURSDAY B.B.Q. RIBS**
served with French Fries, Coleslaw and a Beverage...\$3.75
 - KNOCKWURST AND SAUERKRAUT**
served with French Fries and a Beverage...\$2.75
 - FRIDAY *FRESH FISH AND CHIPS**
served with Coleslaw and a Beverage...\$3.25
 - *FRIED ROCK SHRIMP AND CLAM STRIPS**
served with French Fries, Coleslaw and a Beverage...\$3.95

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Notices

Experience PLUS! Group

This group is designed for the "non-traditional" student. "Non-traditional" students, as we define them, are people who have been out of the academic setting of high school or college for several years and are now attending classes here! The group gets together to talk, socialize and discuss issues that affect them. Our first activity of the semester will be a visit to Legendary Golf in Ormond Beach, on Monday, October 3. We will meet in the U.C. Lobby at 4 p.m. and car pool up there. Meet us in the lobby if you are interested. If you have any questions, contact Lynne Norris in the Counseling center.

"Kick a Habit!" Group

Learn how to rid yourself of a troublesome habit such as smoking, overeating, worrying, procrastination or attraction to unhealthy relationships. This group will meet weekly for four two-hour sessions, during the weeks of October 3 - October 24. The group size is limited. Interested persons need to make an appointment, to discuss the group, in the Counseling Center by 5 p.m. September 30.

Intercollegiate Athletic Booster Club

Basketball Coach, Ron Caylor, is looking for persons who would be interested in helping form and develop an athletic booster club. Of particular interest, at this point in time, are persons interested in helping promote and support the basketball program. A 21-game intercollegiate basketball schedule has been developed with the first game being played at HOME (DBCC Gym) on November 4.

The initial major objective of the proposed booster club is to obtain spectator support, to get the faculty, staff and students to attend the games. Secondly, some HOME game personnel support will be needed for such tasks as scorekeeper, clock operator, shot clock operator, ticket taker, etc. The development of an effective booster club can have a tremendous effect on the success of an intercollegiate athletic program.

Let's make our fledgling intercollegiate athletic program a success from the start by becoming involved. Interested faculty, staff and students may call the varsity athletic director's office, extension 6553 and leave your name and telephone number, or contact Ron Caylor at extension 6844.

An organizational meeting will be scheduled in the near future.

Attention December graduates

The Student Activities Office is currently accepting names of December Graduates who are interested in running for Senior Class President or Vice President. If you would like to run, please make an appointment to meet with Laurie Ranfos, Senior Class Advisor, by calling ext. 6039 or stop by the Student Activities Office. The deadline to apply is October 7, 1988. We are also accepting names of those December Graduates interested in being on the Senior Class Council.

The first meeting for all December Graduates will be held on Wednesday, October 12, 1988 at 8:00 p.m. in the U.C. Elections for Senior Class President and Vice President will be held at that meeting. Important Graduation information will also be discussed at that time.

T.E.R.R.A

T.E.R.R.A. -- The Embry-Riddle Role Playing Association

To all TERRA members and non-members:
There will be a meeting on Tuesday, September 27 at 7:00 PM in room B513. This is to elect officers, introduce new members, and to organize activities. It is important that anyone interested attends the meeting so that we can discuss the constitution and by-laws.

International Day

The Office of International Student Services at ERAU invites you to attend International Day on Saturday, October 22, 1988, from 1 to 5 p.m. in the University Center.

International students will share the traditions and customs of their cultures with a sale of ethnic foods, displays of costumes and craft items, and a program of entertainment. It will be an afternoon for everyone to enjoy and a wonderful opportunity to talk with young people from many lands. There are students representing 80 countries now attending Embry-Riddle.

Grateful Dead Shirt Sale

The Grateful Dead Appreciation Club will be holding a shirt sale this Wednesday-Friday the 30th between 10 a.m. and 3 p.m. in the University Center. We are also having our 1st major party in celebration of the upcoming Oct shows on Sat Oct. 1st. For more information all new and old members are requested to stop by at these times.

Anticipating graduation December 17, 1988?

Have you filled out an application at the Registration and Records Office?? If not, you will not have your diploma ordered nor have a cap and gown ordered for you to participate in the ceremony. All MUST FILL OUT A GRADUATION APPLICATION if anticipating December 17, 1988 graduation.

Applications are being accepted for those expecting APRIL '89 graduation. Come to the Registration and Records Office and fill out a Graduation Application to receive a "PRELIMINARY EVALUATION". You will receive one before the Advanced Registration date later this Fall.

FAA pilot written exam schedule

Embry-Riddle Aeronautical University will administer FAA Pilot and/or Instructor Written Examinations for the following:

1. (PA) Private Pilot -airplane
2. (CA) Commercial Pilot -airplane
3. (FIA) Flight Instructor -airplane
4. (FOI) Fundamentals of Instructing
5. (BGI) Ground Instructor -basic
6. (AGI) Ground Instructor -advanced
7. (ATP 121) Airline Transport Pilot -airplane
8. (AD) Aircraft Dispatcher
9. (ATA 135) Airline Transport Pilot -airplane
10. (IRA) Instrument Rating -airplane
11. (FII) Flight Instructor -instrument -airplane
12. (IGI) Ground Instructor -instrument
13. (FEB) Flight Engineer -basic
14. (FEJ)
15. (FEX) Flight Engineer -turbojet/basic -727

Students intending to take an FAA Pilot Written Examination are required to sign up in Office D-200 or call extension 6800 prior to examination day.

At time of the examination, each student must present a receipt for pilot exam fee, validated by the Cashier's Office; a written authorization form signed by an appropriate aeronautical science department ground instructor, or if failed results of a previous FAA written examination, and present as personal identification an Airman Certificate, driver's license, or other official document.

Explanation of appropriate forms and procedures will be given at 8:30am. Immediately thereafter, testing will commence and unless prior arrangements have been made, late examinees will not be permitted to enter the examining area while testing is in progress.

Air Traffic Control test guide

Students who contacted Mike Welch of FAA in Atlanta for free copy of ATC test guide, response was too great to send out individually. Copies are on reserve at the ERAU Library.

Answers to the test guide can be obtained at the Career Center (second floor of the University Center).

On campus test will be held on November 12, 9 a.m. to 1 p.m. in A109. Results can be obtained that afternoon.

Results of ERAU's mock election

On Friday, Sept 9, students faculty and staff of Embry-Riddle took part in a mock election for the upcoming Presidential race. At the same time, representatives of the League of Women Voters were available for voter registration.

There were 400 people who participated in the mock vote with the results as follows: 266 votes for Bush/Quayle, 99 votes for Dukakis/Bentson and 24 write-in votes.

The write-in candidates included Bill & Opus, Jack Tanner (from HBO), Gumby, Clint Eastwood, Jesse Jackson, Oliver North, Dan Kelly, Gary Hart, and Jerry Garcia of the Grateful Dead.

The League of Women Voters of Volusia County registered 40 new voters in just three hours. They are interested in scheduling another session for voter registration soon.

Library fall schedule

Regular schedule	
Monday-Thursday	7:15am-10:00pm
Friday	7:15am-6:00pm
Saturday	9:00am-6:00pm
Sunday	1:00pm-10:00pm

Fall schedule	
Aug 31 - Sept 4	Regular schedule
Sept 5	Closed for Labor Day
Sept 6 - Nov 22	Regular schedule
Nov 23	7:15am-5:00pm
Nov 24 - Nov 25	Closed for Thanksgiving
Nov 26 - Dec 8	Regular schedule

Counseling Center Program

Panels, information and displays relating to substance awareness will be sponsored by the Campus Substance Awareness Committee. Check the bulletin boards for schedules of these events October 16-October 22.

WEDNESDAY

PENROD'S
PRIVATE
DANCERS
Ladies Night

THURSDAY

Margaritaville
\$1.50
Margaritas
32 oz.

FRIDAY

Dirty Dancing Contest
\$100.00
BEER
SPECIAL

SATURDAY

WET TEDDY
CONTEST
BEER
SPECIAL

Penrod's

PLANTATION CLUB

MONDAY

FOOTBALL
BEAT THE
CLOCK
SPECIALLATEST VIDEOS POOL TABLES
TWO GREAT DANCE FLOORS
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Free Admission
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\$2.00 Off
Under 21

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Calvin and Hobbes

Bill Watterson



The Far Side

Gary Larson



Ancient exterminators

Sucker fish at home

Bloom County

Berke Breathed



Awkward moments in the ant world



Pygmies on vacation



Garfield

Jim Davis



ASSESSMENT

(Continued from page 1)

Each academic department will be involved in developing plans to determine if students have gained sufficient skills and knowledge upon completion of their courses. Changes for improvement will be made based on assessment results.

Many educators feel that assessment can have an affect on placement, retention and the success of remedial courses.

Six representatives of Embry-Riddle (three from Daytona Beach, two Prescott and, one from the International Campus) attended the Third National Conference on Assessment in Higher Education in Chicago last June. In their report to the Vice President of Academics, Dr. John Williams, they concluded that assessment will require (1) a long-term institu-

tional commitment of time and money to develop a dynamic assessment plan, (2) creating interactive opportunities and processes for involvement, (3) defining criteria for judging "good" student performance, (4) communicating assessment results so that data leads to outcomes, and (5) creating feedback that can be used to improve performance.

The report further stated "Every course should in some way both reflect and support the institutional mission and goals and every course (or for that matter, every function) of the institution should have its own stated or clearly implied goal which supports the overall university mission and goals."

At Daytona Beach, there is a campus steering committee which is to work through the Faculty Senate, and

departmental committees to examine current situations and define processes for improvement.

A representative for the Office of Institutional Research attended a workshop on assessment at the meeting of the Association of Institutional Research in Phoenix, Arizona. The workshop provided a wealth of information, particularly in the area of how to get an assessment plan started.

Assessment is a logical outgrowth of the quest to improve academic outcomes. The task is likely to be long and it will definitely not be easy.

Embry Riddle's assessment program is being implemented as an attempt to make improvements in academic and service programs university-wide. All areas of campus activity are sure to be affected.

Hinckley Air Force ROTC commander



Col. Robert Bruce Hinckley

by Phyllis Salmons
Avion News Editor

Our new Detachment Commander, Colonel Robert Bruce Hinckley, welcomes all students back to Embry-Riddle and encourages those who are not already in Air Force ROTC to come by and see how

AFROTC can lead to an exciting career in the United States Air Force.

AFROTC is an educational program designed to provide college students with the opportunity to become Air Force commissioned officers while completing requirements for an undergraduate or graduate degree. In addition to our four-year program, we also offer three-year and two-year programs.

Colonel Hinckley is originally from Springfield, Mass., where he graduated from Classical High School. He earned a Bachelor of Arts degree in Psychology from American International College and a Master of Science degree in Public Administration from Shippensburg University, Shippensburg, Pa.

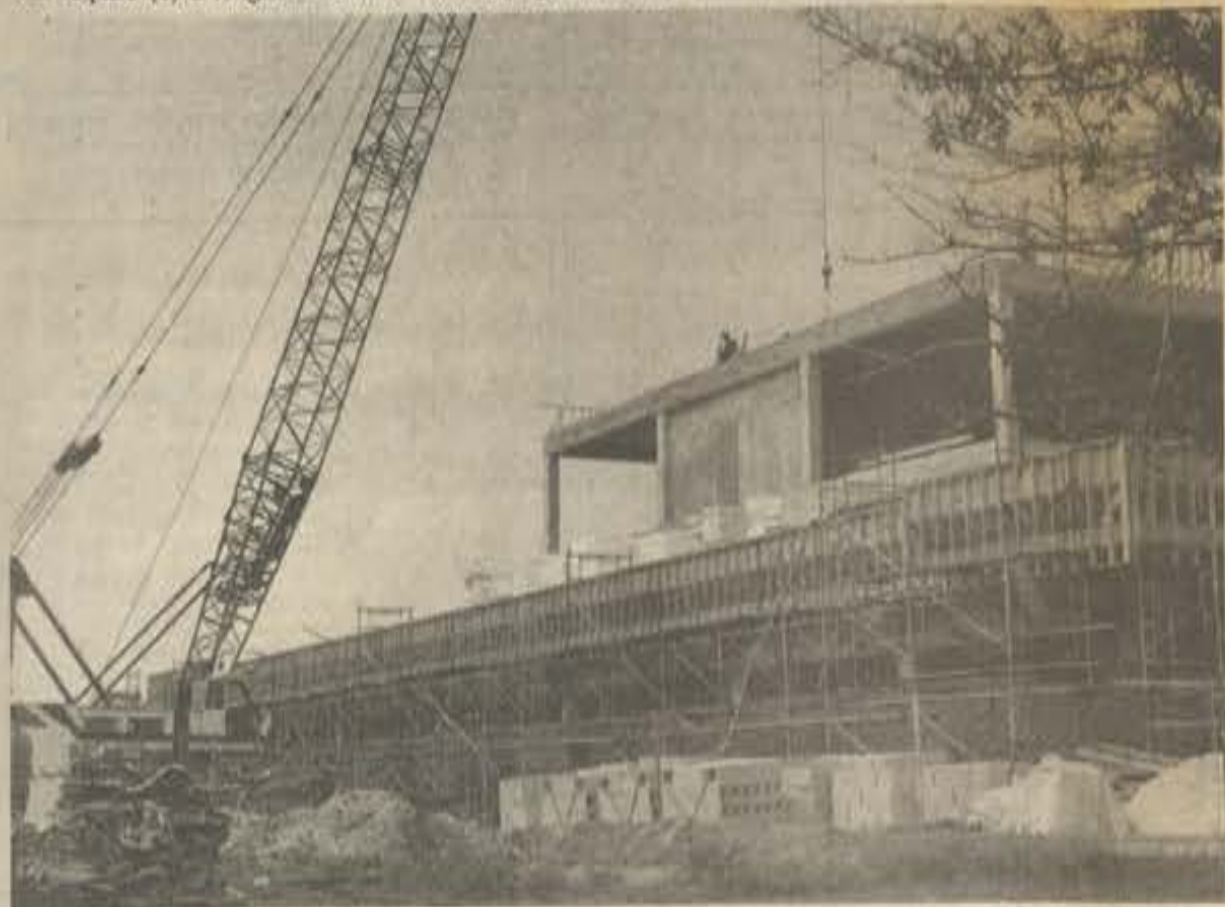
Hinckley was a distinguished graduate of the Air Command and Staff College, Maxwell Air Force Base, Al. He completed the Air War College seminar program and graduated from the Army War College, Carlisle Barracks, Pa.

Colonel Hinckley's last assignment was at Elmendorf Air Force Base, Ak., where he was Commander of the 11th Tactical Control

Group. He then became the Deputy Chief of Staff, Operations for the Alaskan Command and Director of Operations for the Alaskan North American Aerospace Defense Command Region until August 1988.

Hinckley is a command pilot with more than 2500 flying hours, including 75 combat missions over North Vietnam and Laos in the B-47C/D. His awards and decorations include the Silver Star, Legion of Merit with one oak leaf cluster and Bronze Star with V device.

He has been awarded the Purple Heart with one oak leaf cluster, a Meritorious Service Medal with three oak leaf clusters, an Air Medal with five oak leaf clusters and an Air Force Commendation Medal. He has been awarded a Prisoner of War Medal, a Combat Readiness Medal, a National Defense Service Medal, a Vietnam Service Medal with 10 oak leaf clusters, an Armed Forces Reserve Medal, a Republic of Vietnam Gallantry Cross with Palm and a Republic of Vietnam Campaign Medal.



Avion photo by Ken Zischner

Phase II...

The library expansion project moves upward. The Allen Green Construction Company puts the roof on the third story of the new library extension. Work is expected to be completed by late December. The new wing will be ready for students in the Spring.

McCord leads Army ROTC detachment

by Phyllis A. Salmons
Avion News Editor

LTC James H. (Jim) McCord is the newest member of the Embry-Riddle Army Team and the new commander of the Eagle Battalion. LTC McCord is from Hodges, SC, but calls the state of Texas his home. He graduated from Erskine College and has a Masters Degree from Webster University.

He is a career Army Officer who has held various leadership positions, both command and staff, making him ideally suited to be a Professor of Military Science. He is a Master Army Aviator with considerable rotary wing experience. LTC McCord came to Daytona Beach from Germany, where he was Deputy Commander of a Corps Aviation Brigade.

LTC McCord wishes to extend, on behalf of the Army Reserve Officers Training Detachment, a welcome to, or back to Embry-Riddle

Aeronautical University. Army ROTC is an excellent program and a means to become a commissioned officer in the United States Army.

We in the Army ROTC do some exciting things. It's not all "crawl in the mud and get dirty," even though that may be a portion. We'll teach you how to rappel, perform CPR, fire weapons accurately, and become a leader of the best soldiers in the world. We will also challenge you.

Financial assistance is available through Army ROTC, which offers not only full four-year scholarships, but three and two-year scholarships on a competitive basis. A limited number of Army ROTC students have access to smaller one-year scholarships. If your desire is to put some excitement in your life, attain an Army scholarship or get in better physical shape, come on by and find



Lt. Col. James H. McCord

out what our full program has to offer or sit down and talk to one of the upperclassmen in the Army ROTC program.

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TOP DOGS

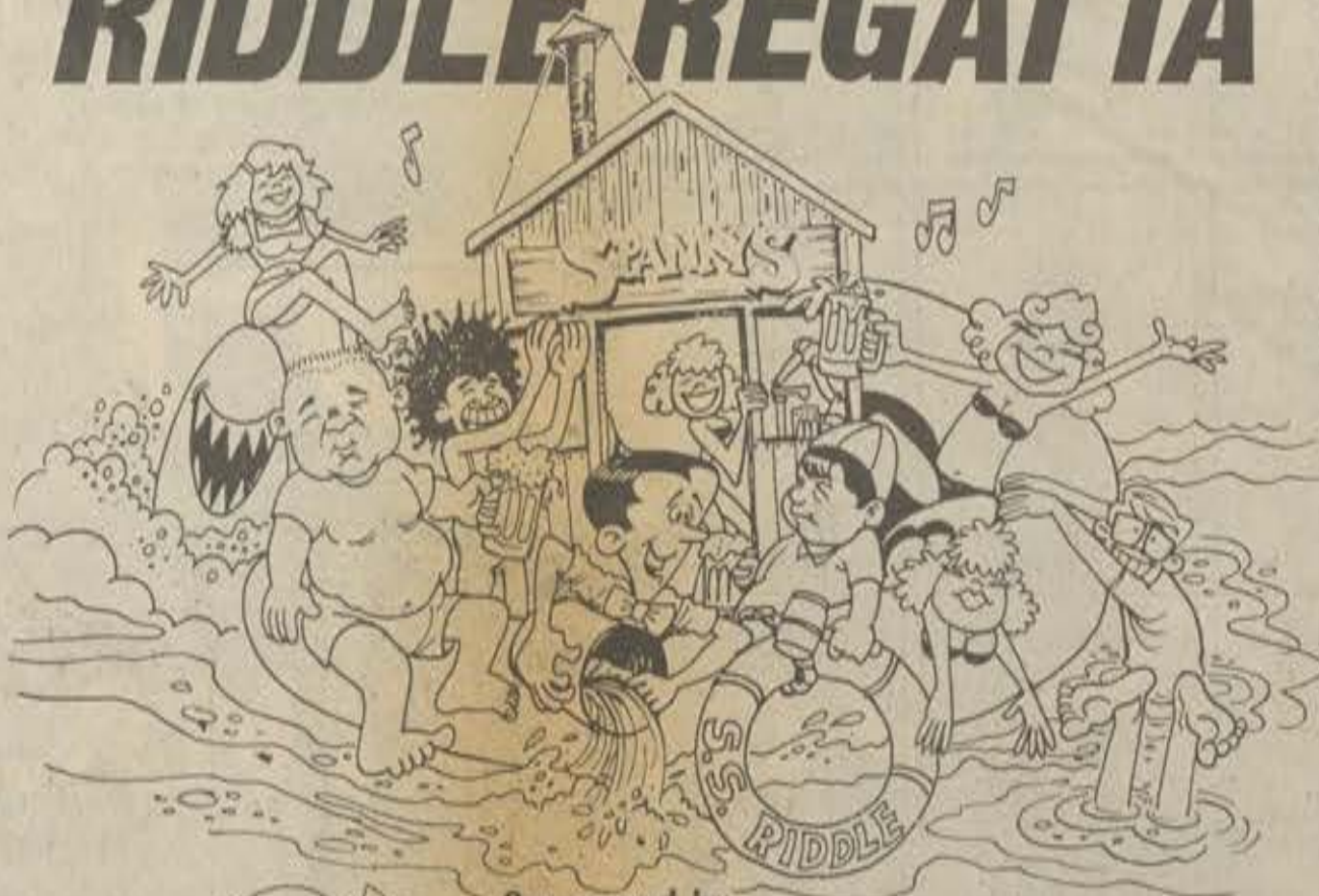
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1979 VW RABBIT-Hatchback, five-speed, 80,000 miles, decent condition. \$700. Call 672-2663.

1974-914 PORSCHE-New shocks, springs, rotors, pads, bearings, webor carbs in box. White/black interior. 2.0 L fuel injected. 258-8989. Ask for Rob, Room 161, or Box 5136. \$4000 or best offer.

1981 PLYMOUTH RELIANT-Four door. Air conditioning, am/fm, good condition. \$900. Call Corin at 257-2160 after 7 p.m.

1978 CAMERO-Little rust on rear and fender. Runs great. New rebuilt transmission. three speed. Asking only \$900 or best offer. Call John at 257-6982.

1978 OLDS CUTLASS SUPREME-Needs repair on trunk, no rust, runs great, excellent transportation. Asking only \$1200 or best offer. Call John 257-6982.

1969 CHEVY IMPALA-\$500. Runs great. Box 5387.

1972 VW POP TOP CAMPER-New clutch. Supreme mechanical condition. Asking \$1300. Call 760-2033. Ask for Greg.

1973 HORNET SPORTS-Runs good. \$425 or best offer. Call 257-1715.

1978 BMW 320i-Looks and runs good. Michelin tires, am/fm stereo with equalizer, sunroof, a/c, and automatic. Call 673-6492.

1972 LINCOLN MARK IV-\$650 or best offer. Box 4101 or 788-6353. Contact Ray.

1977 FORD PINTO-Good condition. \$200 or best offer. Contact Scott 252-1385.

1964 CHEVY II NOVA-Four-door, new parts, excellent running, some rust. \$500. Contact Matt 252-2880.

1977 FIAT 124 CONVERTIBLE SPYDER-Orange with brown top. Needs work. \$300 or best offer. Call Matt 760-1213.

1978 CUTLASS SUPREME-Needs body work only in trunk area. Car runs great, interior excellent condition. Asking \$1100 or best offer. Call John 257-6982.

1982 BUICK SKYLARK-121,000 miles, original owner, will need clutch and head gasket. Best offer. Call Mike 253-1826.

1977 FORD LTD WAGON-Must sell. \$500 or best offer. Greg 761-1005.

1980 AMC Spirit-Good Condition. \$950 or best offer. Contact Mary at box 6709 or 767-0775.

1983 TOYOTA CELICA GT-Liftback, A/C, five speed, EFI, cruise, tilt, cloth interior. New exhaust, tires and battery. No rust, runs excellent. \$4200 or best offer. 258-8971.

1980 OLDSMOBILE CUTLASS SUPREME-Excellent condition. Air conditioning, am/fm cassette, cloth interior. Power steering, brakes, window. \$2600. 258-7813.

1980 DATSUN B-210-In mint condition, no rust, runs great, four new tires, new brakes & transmission, good paint (green metallic). Asking \$1001. Call 760-0035 or Box 6229.

1980 DODGE OMNI-PS, PB, AC, automatic. New tires, battery. Excellent performance. \$2000. Call Deepak at 756-2377 or 239-6950.

1988 MAZDA 323-PS, PB, AC, stereo cassette and more. three-year factory warranty. \$2300. Call Deepak at 756-2377 or 239-6950.

1986 MAZDA 626LX-PS, PB, AC, power windows, power locks, power sunroof, full log stereo cassette and more. Two year factory warranty. \$10,600. Call Deepak at 756-2377 or 239-6950.

1982 TOYOTA CELICA GT-Three-door hatchback, power steering, air condition, automatic, tilt wheel, cruise, AM-FM stereo, mag wheels. Needs minor work. \$2400. Call Jeff at 253-8119.

1984 RED FIERO-Cruise control, sunroof, tilt wheel, power brake, AM/FM cassette stereo, four-speed, four cylinder. 70,000 mi, no air condition but can be easily installed. Asking \$4500 OR BEST OFFER. Call Raymond at 788-0272 or Mana at 788-0751.

1970 VW BUG-New clutch and rear main oil seal, needs some minor work, very dependable. \$400 or best offer. Call Scott 252-8382.

1965 VINTAGE STINGRAY CORVETTE-Mint condition. Baby blue with white interior. Four-speed, new tires, Air conditioning, 327 Block. Asking \$3500. Will negotiate any reasonable offer. Must sell to pay for flight costs. Contact Mike after 6 p.m. 672-7529. Must see to appreciate.

1981 MONTE CARLO-V6, new tires, cam, lifters, pushrods, timing gear, timing chain, muffler, tailpipe, carburetor, computer. Carburetor rebuilt. Used transmission. 74,000 on car, about 700 on new parts. 761-0907 leave message.

BUY WHOLESALE: 1984 BUICK REGAL LIMITED AUTO-Air, cruise, tilt, stereo, power steering, brakes, seats, windows, locks. V-6, four-door, silver, 65,000 miles. Excellent condition. \$4995. 761-2431 or Box 6683.

RAIL-Looks/runs good, needs battery. \$900 761-0907 leave message.

1981 HONDA 400T (HAWK)-Reliable twin cylinder, new rear tire, rebuilt carburetor. Comes with owner's manual and tool kit. \$425. Call Jeff 253-8119.

1979 SUZUKI GS-1000E-With fairing, extra exhaust and many extra's. \$1000 or best offer. Call Dave 672-4777.

1982 SP 125 MOTORCYCLE-Great transportation for anywhere. Motorcycle runs good. No problems starting. One owner. Asking only \$595 or best offer. Call John 25-6982.

1983 GPZ 1100-Mint condition, has rebuilt engine, new paint and new chains and sprockets. Yoshimira exhaust. Must sell. Asking \$1800 but will consider a reasonable offer. Call John at 254-0867 after 7 p.m.

1985 YAMAHA RZ 350-Toomey exhaust, solo seat, 6500 miles, stored mostly. Good condition. \$1500 or best offer. 760-3412.

1980 HONDA CB650-\$750 or best offer. 441-7070 in afternoon/evenings. New battery, air shocks, windshield, Hi/Lo seat/issy bars. Call Gary at 441-7070.

HONDA 400 MT-Very dependable transportation. Good for new students. \$350 or best offer. Call Majid at 238-0804.

82-SP 125 MOTORCYCLE-Great transportation for anywhere. Motorcycle runs good. No problems starting. One owner. Asking only \$595 or best offer. Call John at 257-6982.

NEW 1 BEDROOM CONDO-Two miles north of ERAU, washer/dryer. No pets. \$350 monthly, plus deposit. 673-6224 (leave message).

ROOMMATE WANTED-To share a two bedroom/two bath apartment 1 1/2 miles from ERAU. Fully furnished. Must be neat, clean, and a non-smoker. \$270 a month + 1/2 utilities. Call after 4 p.m. 257-1931.

ROOMMATE NEEDED-Male or female. To share two bedroom, two bath apartment in Indigo Pines. Rent includes sewer, garbage, pest control and water. Complex has pool, hot tub and fitness trail. Apartment is equipped with basic cable, ceiling fan, microwave oven and washer/dryer hookups. Apartment is clean and neat with new carpet. Male or female, will get room with private bathroom. Prefer non-smoker. Small pets ok. \$75 security deposit moves you in. No rent until September. Rent is \$242/month and 1/2 electric. Please contact Matt at 255-9131 for information. If no answer please leave message.

ROOMMATE NEEDED-Male or female. To share three bedroom, lake front house. 2 1/2 miles from school. \$195/month plus 1/3 utilities. Call Alex at 239-0550 or leave message at Box 5696.

ROOMMATE NEEDED-Male or female. To share two bedroom, two bath apartment in Indigo Pines. Rent includes sewer, garbage, pest control and water. Complex has pool, hot tub and fitness trail. Apartment is equipped with basic cable, ceiling fan, microwave oven and washer/dryer hookups. Apartment is clean and neat with new carpet. Male or female, will get room with private bathroom. Prefer non-smoker. Small pets ok. \$75 security deposit moves you in. No rent until September. Rent is \$242/month and 1/2 electric. Please contact Matt at 255-9131 for information. If no answer please leave message.

1980 VESPA BIKE P-200-E-White, low mileage, new paint. Asking \$400 - includes minimal and helmet. Call Jack at 258-9599.

Roommates

ROOMMATE NEEDED IMMEDIATELY-To share a two bedroom, two bathroom apartment in Indigo Pines. Rent includes sewer, garbage, pest control and water. Complex has pool, hot tub and fitness trail. Apartment is equipped with basic cable, ceiling fan, microwave oven and washer/dryer hookups. Apartment is clean and neat with new carpet. Male or female, will get room with private bathroom. Prefer non-smoker. Small pets ok. \$75 security deposit moves you in. No rent until September. Rent is \$242/month and 1/2 electric. Please contact Matt at 255-9131 for information. If no answer please leave message.

ROOMMATE NEEDED-Male or female. To share two bedroom, two bath apartment. All renter needs is stuff for your bedroom. Pool, weightroom, hot tub. Needed immediately. 1/2 rent and 1/2 utilities. Call Hollie at ext. 6280 between 8-5.

ROOMMATE NEEDED-Male or female. To share three bedroom, lake front house. 2 1/2 miles from school. \$195/month plus 1/3 utilities. Call Alex at 239-0550 or leave message at Box 5696.

QUICK BICYCLE FOR SALE-Huffy women's bike (ten speed) - \$80 or best offer. Murray women's bike - \$50 or best offer. Contact Mana at 788-0751 or Raymond at 788-0272.

10-SPEED BIKE-Blue Schwinn ten speed bike in good condition. Asking \$50. Call Pat at 257-2056.

BEDROOM FURNITURE-Queen size bed in great condition, drawers, and night stand for sale. Only \$75 for everything. Get it out of our living room! Call 257-2056.

FANTASTIC DEAL! 640K PERSONAL PORTABLE COMPUTER (AMSTRAD 640)-\$1,000, brand new/never used/full warranty. I need the money for down payment on a house (cost to me was \$1,300 - will show receipt). IBM compatible, dual disk drive, full keyboard, modern, user 3 1/2" floppy disks. John 672-9231.

PIONEER RT-909-Reel to reel, seven inch and ten inch tape capability. For the professional music lover. Only \$250. Call Dave 760-0529.

2 RADIO CONTROLLED CARS-On-road MRC Porsche 956, off-road hornet, both include battery, mod. motors, Futaba radios. Call Scott 254-6854.

IBM PC-640K RAM, monochrome graphics, 20 MB Seagate hard drive. \$1,300 or best offer. Contact John at 258-6498 after 6 p.m.

WATERBED-Queen size waterbed with heater & bookcase \$100, 4WD electric R/C off road car (hot shot) with four channel radio \$125. Call Scott 252-2863 or Box 4148.

IBM PC FOR SALE-EGA graphics, 640 KB Ram 2-3 1/4" floppy drives \$1,250 or best offer. Call A.J. at 788-1078 after 6 p.m.

REFRIGERATOR-Sears Kenmore - six cubic feet (four times larger than normal dorm refrigerator) with freezer section. Three months old - new condition. \$200 firm. Will deliver. Call Scott 252-3778.

BOSE 901 SERIES IV-For the serious high performance high end listener a pair of Bose 901 loud speakers. Only \$550 non negotiable. Call David 760-0529.

WINDSURFING BOARD-Windsurfer, twelve feet, excellent shape, nice colors on sail plus one high wing daggerboard \$300. Can include lessons if needed. Call Peter at 767-7649.

COMPUTER FOR SALE-Commodore 64 PC includes: color video monitor, single disk drive and letter quality business printer. Various word processing disks such as Word word and Easywriter are also included in the sale. \$350 Call Bill at 788-6724.

ATTENTION EL 106 STUDENTS-For sale: textbook, and \$200 worth of tools for only \$50. Can be sold separately. Contact Matt at 255-8517 or ERAU Box 6767.

ASSORTED FURNITURE FOR SALE-Bookcase, desk, bed and frame, dresser, and t.v. All at reasonable prices plus other things. Call Carlos at 253-3685 if interested.

12 SPEED BICYCLE-Lightweight, many extra's. \$220 firm. Worth over \$500 new. Call Dave 672-4777.

INSTRUMENT WRITTEN VIDEO COURSE-Twelve hours of video by ATC. Includes all new questions and answers. Rent for \$45. 756-9349

FURNITURE FOR SALE-Couches, chairs, coffee and end tables, lamps. Cheap prices! Call 756-1694 ask for Pedro.

POLYTECH AK47-Three-thirty round clips, cleaning kit and 400 rounds ammo. Call Jeff at 788-7837.

BEACHCRUISER-Great transportation to the beach, store, or even school. Must sell. Asking \$65 or best offer. Call 257-6982.

WATERBED-King size. Complete with heater, liner, mattress, plus \$50 side pads. I paid \$250 brand new. After one semester, will let go for \$150, or best offer. Call Matt at 254-0867.

BARBECUE GRILL-15" x 19" barbecue grill with lid and wheeled cart with shelf \$10. Also Hibachi \$5, or best offer. Senior .. must sell. Call 238-0963. Ask for Scott.

12-SPEED BIKE-Eliminator. Like new. Great buy. \$75 firm. Call evenings 253-8618, Jim.

WATERBED-Queen size waterbed. Excellent condition. \$150, negotiable. Contact #3487 or 761-8613.

CAMERA LENS-Promaster zoom lens. Canon Mount (A-series) 80-200. Max aperture 4.5. 28 mm 1A skylight filter caps. \$100 or best offer. Contact Rob at 258-8989, Room 161 or Box 5136.

FLIGHT COMPUTERS-Avstar and Pathfinder. Call 253-7424, after 6 p.m.

SMALL DORM REFRIGERATOR-\$40. Call Dave 672-4777.

FISCHER STEREO-Changer, tape, receiver & speakers - \$70. Oak bar stools, 24", \$50 pair. 788-9699.

MATCHING LIVING ROOM SET-Couch, chair, end tables, and coffee table. \$100. Call Maria at 239-6225 8-5 or 258-0248 after 5 p.m.

SAILBOARD FOR SALE-Windsurfer - "One Design", excellent condition, perfect for all levels of windsurfing. Includes mast, boom, 6.5 Neil Pryde sail. Asking \$450 or best offer. Call 258-8498.

WATERBED-King size, six drawer pedestal, four sets of sheets, comforter, side rails, excellent condition \$400. Desk/table-antique, oak, one drawer \$50. Desk-seven drawer with chair \$25. 253-4084.

DIMOND BACK CANOE-Fiberglass, very light & transportable, excellent condition. \$200 or best offer. Call Scott 252-8382.

HOUSE FOR SALE-3 bedroom, 2 bath home w/ Central a/c and heat, beautiful porch, fenced yard, central location, near ERAU. \$52,000. Call Bill Clough, Gold Realty Center Realtor at (904)788-3333.

Miscellaneous

LAUNDRY-Lakeview Laundromat, 952 Reed Canal Pk. South Daytona, FL 761-8585. Student discount with I.D. 10% off. Drop off service, wash-dry-fold or dry clean. Do it yourself-free soap and bleach.

FLIGHT INSTRUCTION-Reasonable rates! As low as \$38.50 dual from solo to commercial, or to regain proficiency before or during a Riddle flight course. Call Pedro Romero at 756-1694.

TUTORING-Tutoring in Pascal and Logic systems. \$6 per hour. Call 788-8182 before 1000 or after 1600. Ask for Irlie.

STOLEN-One large grey car cover at Wood Forest Apartments. Imprinted in black with "Roepnack - HKF - 204, 1543 1/2 St. Vincent St., Ulin NY" on front and back. If found, contact Glen T. Roepnack, ERAU Box #8730 or 239-0476. Large reward offered!

MUSICIANS-We're looking for a few good people. If you have talent and your own equipment, give us a call at 252-4322. Ask for Irlie.

FLIGHT INSTRUCTION-Free flight instruction. You rent the plane. PVT - CFI. Call 257-1759, leave message.

TUTORING-Are you having trouble with a math or science course? I may be able to help. My name is Ed Weller and I am available for tutoring in Algebra, Trig., Calculus, Chemistry and Physics. I am highly respected and experienced tutor. Call me at 257-1196 or send a note to ERAU Box 4141.

Personals

Chico,
See you October 15 at the Male Dance Show at the Top of the Boardwalk.
Love,
Birthday Girl

Natas,
Nice toes!
Hootage

Phyllis Babe,
Another B-day! How about a fat big one on the cheek?
OX
Mike Z

Red Baron,
Congrad. on hundred plus. Keep striving.
Love,
Youngster

J & A,
Hope you guys have only the best!
Love ya!
Jacuzzi

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Incoming ERAU freshman profile shows positive academic trend

The first of a series
on Embry-Riddle students

by Deborah M. Osborne
Director of Institutional Research

Have you ever wondered how many students have the same major as you, or how many female students are on campus, or other questions about your fellow students? The answers to these and many other questions will be revealed in a series of Avion articles called The Embry-Riddle Student. First is a report on the Incoming Freshman class, followed by an article on Transfer Students and Non-Traditional Students, and concluding with the Undergraduate Student Population in general.

Of the 1530 new students at the Daytona Beach campus of Embry-Riddle in the Fall of 1988, 1135 were classified as incoming freshmen. Approximately 93% of these students are 17 to 19 years old, however the range in ages is from 16 to 39 years.

About 10% of the incoming freshmen are female which closely rivals the undergraduate percentage of females. There are 41 foreign students included in the freshman class representing a host of countries including Ceylon (4 students), Netherlands Antilles (4), Antigua (3), Germany (2), India (2) and Jordan (2). Several other countries are represented by one student each.

While 84% of the incoming freshmen are white, minority ethnic representation includes 52 blacks (4.6%), 8 American Indians (0.7%), 22 Asians (1.9%), 46 Hispanics (4.1%) and 45 non-resident aliens (4.0%). Most states of the country are represented by incoming freshmen with the top four states being New York (156 students), Florida (126), Pennsylvania (102), and New Jersey (83).

The breakdown of freshman majors are shown in the table.

Academic information for incoming freshmen has been analyzed and compared with last fall's incoming group. Information concerning admission test scores (SAT and ACT) as well as average high school grade point average and high school rank (percent) have been tabulated. The table also includes comparative information for Fall 1987 and 1988. The comparison indicates a positive trend in the recruitment of quality students.

Next week look for Part Two: The Embry-Riddle Transfer and Non-Traditional Student.

Academic Program	Majors		SAT Scores		ACT Scores		Ave. HS GPA		Percent HS Rank	
	Number	Percent	1988	1987	1988	1987	1988	1987	1988	1987
Total Group	1135	100	1003	952	23	21	3.05	2.86	31.18	39.63
Aeronautical Engineering	269	23.70	1097	1081	25	19	3.27	3.21	22.51	23.30
Aircraft Engineering Technology	65	5.73	951	855	22	18	3.05	2.68	41.07	46.04
Engineering Physics	20	1.76	1170	1169	28	26	3.34	3.41	18.97	13.87
Aeronautical Science	335	29.52	1041	993	23	21	3.07	2.92	30.60	36.00
Aeronautical Studies	108	9.52	909	840	21	20	2.81	2.55	44.46	55.11
Aircraft Maintenance	9	0.79	866	748	24	16	2.59	2.20	32.94	67.03
Aviation Maintenance Management	8	0.70	912	883	23	none	2.82	2.91	33.56	40.13
Aviation Maintenance Management w/A&P	18	1.59	924	862	21	19	2.95	2.66	44.32	55.87
Aviation Maintenance Technology	38	3.35	799	815	20	15	2.67	2.48	58.72	61.66
Aviation Technology (AMT/Avionics)	43	3.79	911	762	20	17	2.69	2.30	40.41	65.78
Aviation Technology (AMT/Flight)	6	0.53	896	840	19	17	3.13	2.63	40.36	51.85
Aviation Technology (Avionics/AMT)	4	0.35	852	1022	none	19	3.13	2.85	33.95	47.13
Aviation Technology (Avionics/Flight)	5	0.44	992	899	23	19	3.41	2.87	39.10	40.36
Aviation Technology (Flight or Undecided)	2	0.18	950	720	none	10	3.39	2.31	21.51	71.80
Airway Science	28	2.47	895	none	19	none	2.93	2.91	38.38	39.48
Airway Science (Aircraft Systems Management)	9	0.79	1042	979	23	21	2.85	2.90	43.80	44.21
Airway Science (Airway Computer Science)	17	1.50	926	868	24	20	3.02	2.83	21.87	49.21
Airway Science (Aviation Maintenance Management)	3	0.26	870	845	none	18	2.94	2.53	35.83	45.60
Aviation Business Administration	78	6.87	923	828	22	19	2.91	2.64	27.55	45.99
Computer Science w/ Aviation Applications	49	4.32	1004	962	24	23	3.13	2.90	25.42	39.30
Avionics	18	1.59	918	856	21	19	2.77	2.63	48.20	51.37
Professional Aeronautics	1	0.09	none	930	none	none	none	1.63	no rank	no rank
Non-Degree	2	0.18	610	none	none	none	1.93	1.86	no rank	90.05

Upcoming
articles in the
Avion

Look for firsthand photos of the 26th Space Shuttle mission. The Avion will feature both launch and landing coverage.

In late October, look for firsthand coverage of both the Opa Locka and the Lake City airshows.

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*-except free drink nights