

9-30-1987

## Avion 1987-09-30

Embry-Riddle Aeronautical University

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Balloons in Space Technology in Next Week's Avion.

Emily hits Bermuda

Mike Osborn Avion Staff Reporter

Emily started out just east of the Windward Islands as a formation of clouds looking suspicious. The weather at the time made it storm favorable for development.

The water temperature in the Caribbean was 86-87 degrees Fahrenheit, and the upper level winds started to give the storm energy and organization.

At 5:30 p.m. Sunday Sept. 20, 1987 with an upper level divergence and a little wind shear in the area evening off some steam the storm upgraded itself into tropical storm Emily. Within 16 hours the storm was upgraded to hurricane Emily with winds in excess of 75 mph.

The winds which were steering Emily are measured at 500 millibars, which is about 18,000 feet. It is here that one half of the atmosphere is over you, and one half is over you. Most of the storms we are able to track will originate well northwest. Then due to the local winds they turn them on to a northeasterly route.

The hurricane continued to strengthen as it headed northeast towards the island of Hispaniola. A hurricane warning was issued to Hispaniola, and at 11:30

These factors caused Emily to be downgraded back to tropical storm Emily on the other side of the island.

At this point, Emily was in the area of strong wind shears from the southwest of Florida heading north-east at 45 mph. The wind shear caused Emily to take a heading away from Florida. This gave Mr. McDuff (Chairman of the flight department) a little peace.

With the warm water under her, Emily started to strengthen and head right for a cold front which guided her straight into the island of Bermuda at a forward speed of 45 mph. At 8:15 a.m. Friday Sept. 25 wind speeds at 80 mph with gusts of 93 mph Emily ran over Bermuda.

The hurricane continued to move northeast at a rate of 40-45 mph and was still being influenced by the cold front, from the caused Emily to strengthen and expand in area and is now being termed an extra-tropical low.

As of Saturday Sept. 26 Emily is still an extra tropical storm and she is moving at an incredible 70 mph to the northwest. Emily was located 700 miles to the southeast of the southern tip of Greenland with high clouds sustained winds near 70 mph.

Such a fast moving storm did create shipping hazards. Ships are not able to get out of the way of the fast winds associated with Emily, but the seas were not as greatly influenced due to the fast speed the wave was moving.

With hurricane season running until the end of November there is a good possibility we will be able to watch another storm develop.



Cat Eyes

An IBM representative demonstrates the latest in computer graphics. Students had the opportunity to see the likeness of a Cheetah, and use the newest technology that IBM had to offer.

Apex photo by Richard Clarke

Radio Club plans are underway

Lilo Doukas Avion Staff Reporter

The idea for a radio station was born long since the spring of 1986, when the SGA requested student input into the idea. Soon after that, the Broadcast Club, was formed. The Club will be responsible if the station becomes a reality.

Currently, the Broadcast Club is in the process of applying for a construction permit to establish a radio station on campus. The \$2,000, non-refundable application fee will be paid for by the SGA. The SGA has also agreed to provide funds for the purchase of the equipment needed for the station.

Negotiations are also in progress to lease or rent space for an antenna on a local tower. The negotiations are expected to be completed soon, possibly within the week.

Once the location of the antenna has been selected, frequency applications, necessary for operation, can

be forwarded to the Federal Communications Commission (FCC).

Negotiations with suppliers of radio equipment needed for the FM stereo station are also underway. While this is going on, members are being recruited to help the Broadcast Club's recent activities. Such activities include fund-raisers to raise the money needed to set up and operate the station.

Current members are being prepared for their future duties on the station by being taught the skills they will need once the station is operational. This is being accomplished by having members provide a weekly "live broadcast" in the University Center. This will consist of a variety of music programming, including jazz, reggae, and any special request. Club officials report that although the club has been in existence for a while, all procedures had to be started from scratch, because they felt that very little was accomplished in the past.

Public interest movements now active

College Press Service

WASHINGTON, D.C. — Our associate Leo Whitten has learned that arch-conservative business and professional groups like the Edison Electric Institute, the American Nuclear Energy Council and the National Legal Center, eagerly supported by several corporations, have pushed for a PIRG purge.

But a funny thing happened on the way to the altar. The sacrificial lambs declined to cooperate. Instead, they've gone to grow. There are now 23 active state PIRGs, counting 400,000 student members on 118 campuses and another half-million in the general population. A book on the PIRG movement, More Action for a Change, by former Nader associate and Jara Anderson reporter Kelley Griffin, is due out this month, providing both history and how-to for potential recruits.

The PIRGs have lost all potential allies as they've won, but they keep coming to the dismay and often huge expense of their corporate targets. They have won a hazardous waste cleanup law in Massachusetts, forced banks in Missouri to shorten their check-clearance time, spread news of acid rain throughout New England and got Ontario to force a Minnesota utility to set up an anti-pollution and energy-conservation program.

PIRGs, it seems, are here to stay. TAINTED SEAFOOD Coastal waters have become so polluted that it is becoming unsafe to eat the seafood caught in them, according to Rep. Walter Jones, D-N.C. As chairman of the Merchant Marine and Fisheries Committee, Jones has held hearings on the subject and, he told our report-

ers Karen Tally, he wants to pass legislation to further the protection of our coastlines and estuaries. Contaminated shellfish from Louisiana were responsible for the first outbreak of cholera in 60 years in this country. Jones has learned Taint is still alive and caused more than 100 outbreaks of viral gastroenteritis in New York City in 1922.

MILKING FARMERS The new tax law allows livestock producers to deduct the expenses of raising their animals as long as the animals become productive within two years. The IRS is that the tax man have ruled that the two-year period starts at conception. This has dairy farmers up in arms because cows take almost 14 months to produce a calf, and there's no way it can be productive in 14 months. Rep. Thomas Petri, R-Wis., has introduced a bill that would force the Internal Revenue Service to wait until a calf is born before the clock is started.

HEADLINES & FOOTNOTES Congressional investigators recently found an office at the International Trade Commission that was piled high with boxes containing confidential historical records. Agency officials promised to remove the stacks as soon as they figured out how to declassify the documents. Soviet leader Mikhail Gorbachev is trying to force some reduction of capitalism in his country, but he is having a hard time. The reaction in Communist has been around so long that no one can remember how the perestroika works.

Colleges rated on library

College Press Service

WASHINGTON, D.C. — The groups that certify and accredit colleges should grade campuses by how much students learn, not "how many books they have in their library," the U.S. Dept. of Education proposed Sept. 17.

If they don't comply, the Education Dept. could refuse to recognize any of the 80 accrediting agencies that now review the legitimacy of programs at some 9,800 college-level institutions. "That's a very medieval view," replied Marjorie Lenn of the Council of Postsecondary Accreditation.

In making the proposals — which will improve official regulations unless someone formally objects to them within 90 days — Education Secretary William Bennett said he hoped to "improve consumer protection" by giving students a sense of how good colleges would be educating them before they enroll.

But "traditionally, accrediting agencies have looked at inputs: how many books are in the library and how many faculty members have Ph.D.s" when grading a program, Bennett said. "The focus," he contended, "should also be on outcomes or student achievement: what students actually learn."

To judge what they learn, Bennett wants the accrediting agencies to force colleges to reveal data about academic programs, costs, refund policies and graduation requirements, and to "make sure their claims concerning graduation rates and job placement rates are verifiable."

Asst. Education Secretary C. Ronald Kimberling cited Northeast Missouri State University's competency testing program as a model for deciding what — and whether — students are learning. "Accountability," added James T. Rogers of the Southern Association of Colleges and Schools, "is certainly a reasonable expectation."

But Lenn replied, "The accrediting community hasn't been counting books for a long time."

"The community," she maintained, also has been evaluating student progress as part of its accrediting decisions "for a long time."

Public interest movements now active

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WASHINGTON, D.C. — Ralph Nader and his single-minded method of consumer activism may have gone out of style in Washington under the pro-business Reagan administration, but Naderism is thriving on the nation's campuses.

Nader sniffs called PIRGs — Public Interest Research Groups — have survived years of scorn from conservative ideologues and emerged stronger than ever. Founded in 1971 by Nader and Donald Ross, the PIRGs still have their power bases on university campuses. From Providence to Podunk, but they have expanded their membership among the public at large.

The group file public-interest lawsuits, investigate and expose corporate abuse lobby in Congress and state legislatures, force referendum on consumer issues and canvass voters — all in the name of democratic change. Their hot-eyed quest for the Holy Grail in defiance of the "me-generation has surprised even Nader himself.

In fact, PIRGs began to look like just another victim of the Reagan Revolution in the administration's early years of triumph. By 1984 their 24 state groups embracing 100 campuses had dwindled to 20 student membership was down.

Their members were already tuning up for the funeral dirge. The conservative College Republicans gleefully targeted students to "rid their states of

Collegiate youth is on the uprise

College Press Service

Students are applying to more campuses and becoming "more sophisticated" in choosing which one to attend, two recent surveys indicate.

The phenomenon may help explain the mystery of why, when there are fewer 18-year-olds in the population, colleges are receiving record numbers of applicants. "Students," observed Kristin Persson of College Connection, a New York-based marketing firm that works with colleges, "have become smarter consumers."

In 1986, about 70 percent of the freshmen at private colleges applied to at least six more schools, a survey released earlier this year by the American Council on Education and the University of California at Los Angeles said.

At public colleges, one third of the freshmen surveyed said they applied to at least four schools. "In 1967, more than half the nation's college freshmen applied to just one school, Schick said. But in 1985, only 35.5 percent applied to just one school.

"It was predicted that fewer 18-year-olds would mean colleges and universities would receive fewer applications," said Persson. "They're just taking it upon themselves to get better education. A higher proportion of 18-year-olds are enrolling in colleges."

"Students are realizing how competitive it is, and they're preparing better by taking courses to prepare for the SATs and ACTs," Persson explained. "Facing campuses to get a better look at more colleges."

Students also are showing said to show which schools offer best financial aid programs, said Dr. Kenneth C. Green of UCLA.

Students' increasing sophistication — and the swelling number of 18-year-olds — has forced colleges and universities to adopt more aggressive marketing techniques, Green said. But the number of 18-year-olds will decline by 60 percent between 1988 and 1995, he added, forcing campuses to recruit more creatively. "The worst is yet to come," said Green.

ROTC Colonel plans retirement

Eugene DePaolo AFROTC

Colonel Sanford Babos, has announced his retirement after 27 years of service to the ERAU Air Force ROTC. His leadership has gained him unlimited respect and effective command of the corps.

When asked "What kind of commander has Col. Babos been like to work for," Major Ashton gave his response without hesitation, "I'm sure, the best I ever worked for." MSgt. Miller, who incidentally has twenty-five years of military service, answers like this, "Col. Babos is the best commander I ever worked for."

Col. Babos received his commission on October 12, 1960 through AFROTC. Early in his career he was a Navigator-Donboarder with the Strategic Air Command in the B-47E until 1965. This start in aviation led him into the ever-admired pilot training program. From 1966 to 1970 he served as a T-37 instructor

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His career has been further enhanced by duty as Chief of Operations/Safety for the United States Army Forces in Europe (USAFE). Inspector General, Col. Babos has over 6500 flying hours and 247 combat missions. His military decorations include the Legion of Merit with one oak leaf cluster, the Distinguished Flying Cross with 3 oak leaf clusters, Meritorious Service Medal with 3 oak leaf clusters, and the Air Medal with 21 oak leaf clusters.

Since Col. Babos' command of Detachment 157 in Florida in 1985, the detachment has been awarded the highest inspection award given, an outstanding. The retirement ceremony for Col. Babos will be held on Oct. 14, behind the Hunt Library at 5 p.m. All are invited to attend.

Inside the Avion this week

Table with 2 columns: Activity and Count. Classifieds: 13, Clubs: 7, Comics: 11, Notices: 12, Space Technology: 8, Sports: 5

Trivia: The most popular pin-up girl in World War II was Betty Grable.

...to 11:30 a.m. at 11:30 p.m. Tuesday Sept. 22 it hit with winds in excess of 125 mph. Three people were killed, and scores were left homeless on the tropical island. The mountains on Hispaniola caused the hurricane's wind speed to decrease rapidly and its heat source, the ocean, was suddenly gone.

With hurricane season running until the end of November there is a good possibility we will be able to watch another storm develop.

## Colleges rated on library

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"It was predicted that fewer 18-year-olds would mean colleges and universities would receive fewer applications," said Persson. "But that just hasn't happened. A higher proportion of 18-year-olds are enrolling in colleges."

"Students are realizing how competitive it is, and they're preparing better by taking courses to prepare for the SATs and ACTs," Persson explained. "They're also taking a better look at more colleges."

Students also are shopping around to see which schools offer the best financial aid programs, said Dr. Kenneth C. Green of UCLA.

Students' increasing sophistication -- and the dwindling number of 18-year-olds -- has forced colleges and universities to adopt more aggressive marketing techniques, Green said.

But the number of 18-year-olds will decline by 60 percent between 1988 and 1995, he added, forcing campuses to recruit more creatively.

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Photo courtesy of AFROTC

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Clubs.....7  
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Trivia: The most popular pin-up girl in World War II was Betty Grable.

**Editorial**

**Students give program a sporting chance**

Embry Riddle Aeronautical University: Sounds good does it not? For those of us who have been here for more than a year it is also beginning to look good. The addition of Spruance Hall has done much to make us proud. The convenience of having the Administrative offices on campus is equally as nice as the physical appearance of our new building.

This University is in a powerful growth mode. An intercollegiate sports program is a logical evolution in the process of our growth. Our Soccer Team is very active, and competes very successfully against NCAA colleges, yet had to charge each of its members \$10 toward the rental of a van to get to a recent match. Our Baseball Club has been trying to field a team for several years; having to raise money through car washes, working at the Daytona Speedway, soliciting private donations, to pay for uniforms, umpires, fields, etc.

Our Golf Club has fielded a golf team for the past six years with little support from the University. This same golf program has raised nearly \$10,000 for tuition assistance for ERAU golfers. The list goes on: Tennis, Running, Lacrosse - all are trying to function as club teams supporting themselves.

This monumental achievement of our teams needs to be recognized. Imagine what these teams could do with full University support. A logical step in this direction would be the formation of an intercollegiate sports program.

President Tallman has voiced his support for an athletic program. He is concerned however, about financing it, and would like to get the support of the student body both for the program itself and its financing. He has given us much in the past two and one half years. A decision will be made by the Board of Trustees this semester as to the fate of an intercollegiate sports program for the Daytona Beach Campus. Student support for an athletic program, will be recognized highly by the Administration.

What will the cost of this program be? An additional \$5 fee per semester would net the program \$50,000 each year. The University would be nationally affiliated and could field teams in Soccer, Baseball, Golf, Tennis, Lacrosse, Basketball, Cross-Country, Softball, and Swimming. What we get for our \$5 per term, is the chance to play for one or more of these teams, or just support them while building our Eagle spirit.

An intercollegiate sports program would give the students an outlet from the high pressures of studies both by participating in a program or just supporting it. Contrary to popular belief, the students have a big voice on campus, which the Administration listens to. The opportunity and ability to make things happen on this campus lie within the student.

This Friday, Oct. 1, petitions will be circulated around campus for support of an intercollegiate sports program. This program starts with the students; and ends with the students as well as the University becoming more united.



**Letters to the Editor**

**Library Noise**

To the Editor:

Since the opening of the Jack Hunt Memorial Library, I have used the facility regularly and have found it to be a great place to find all the necessary materials and resources to be ranked as a University class library. But, unfortunately, that is where the comparison ends.

The matter of an excessive amount of noise in our library came to my attention when I did some studying in the DBCC library. Their facility seems to be ranked on approximately the same level as ours, except in the field of aviation, but is much quieter than our library. When I entered the library at DBCC I was shocked by the noise level, or lack thereof. Every student seemed to be hard at work with their head in their books. A venture into the Embry-Riddle Library proves the building to be more of a social hall than a place to do any homework.

I believe the greatest contribution to the noise level is the way the seating is arranged. Having cafeteria style table with four or six seats per table is almost an open invitation to

start a conversation. With the increasing amount of students using the library, sometimes you are forced to sit at these tables. Therefore making your presence at the library obsolete. I go there to find a quiet atmosphere and to escape the interruptions that can be found at home, or in a dormroom.

It has become obvious that something must be done about this and done soon. As Embry-Riddle grows every semester, the noise level will grow proportionately.

To find out what a real library is like just visit any one around the Daytona Beach area. They have clearly marked areas for light conversation and they also have places marked as strict quiet study areas. In our effort to become a "real" university this is a step along the path that can't be skipped.

Laurence N. Roberts

**AIDS NEEDED**

To the Editor:

WE NEED HELP!

The Avion Staff



Avion photo by Timothy B. Van Milligan

**Cited . . .**

There's places you can, and places you can't. Jeeps are great for going anywhere but not parking anywhere.

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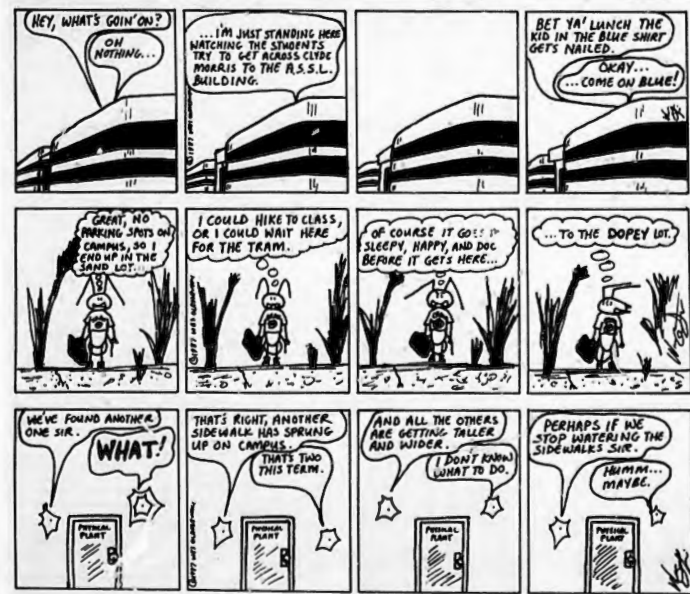
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**Wes Morris**

**Wes Oleszewski**



**AVION**

Funded by the Students of Embry-Riddle © 1987 the Avion Newspaper

Editor-in-Chief Paul Novacek

Avion Advisor Dr. Roger Osterholm

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Sports Editor Brian Mosdell

Advertising Manager Lito Dokus

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Copy Editor Teresa Anderson

Production Manager Chris Legvid

Aeronautics Editor Tom Juliani

Space Technology Editor Chip Zdrov

This week's staff: Wes Oleszewski, Jeff Hatac, Jeff Guzzetti, Patrick W. McCarthy, Renee Brinkli, Michael Racine, Rich Dusek, David Rovka, Oliver North, Larry Rice, Kim Storm, Mike Osborn, Eugene DePaolo, Tim Van Milligan, Ken Bascom, Rich Gray, and nobody else.

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 continue 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: Paul Novacek, Brian Mosdell, Tom Juliani, Chr A. Legvid, Teresa Anderson, Richard Clarke, Chip Zdrov, Robert Watt, and Lito Dokus.

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.

The Avion is produced by a volunteer, student-journalist staff weekly throughout the academic year and bi-weekly throughout the summer. The Avion is funded through student government fees and advertising revenue.

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Correspondence may be addressed to: The Avion, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32114. Phone: (904) 228-6048.

Open Forum

Beach toll will hurt our locals

Dallas S. Brooks  
Writing Center

It's often said that the best things in life are free, and for many Daytona residents certainly one of life's nicest pleasures is a leisurely drive on "the world's most famous beach." Daytonians have never paid a toll to drive on their celebrated beach, due largely to the city's sensible allocation system of beach maintenance costs. Under this system, services such as law enforcement and sanitation are paid for by the revenue generated from two sources: city sales taxes, and concession fees from beachside merchants. This fairly distributes beach maintenance expenses between those who enjoy the beach and those who profit from it. In addition, the large number of tourists who frequent our beaches share in these expenses through their patronage of local businesses. It would seem ludicrous to tamper with such success.

But effective January 1, 1988, the area's lawmakers intend to do just that. For this is the date that the County of Volusia assumes control of the area's beaches, and Daytonians must wave a sad farewell to the "oil free" beach. The county's current beach proposal will initiate a "double fee" system for local residents while absolving the business community of any specific responsibility for the beaches they profit from. In short, Volusia County's beach funding proposal is grossly unfair and must be modified.

No one should be forced to pay twice for the same services, but under the beach commission's proposal, county residents would have to do just that! This budget calls for a whopping 43 percent—\$2.3 million of the total beach budget to come from county property taxes. Fifty-five percent of the needed revenue

dollar toll, with the remaining two percent generated from the fines collected for violations of beach ordinances. Imagine how this will affect the typical Volusia headed for a day at the beach? His or her tax dollars would already have financed almost half of the total beach budget. But upon arrival at the beach, he or she would be required to pay toll to help finance the other half! Hardly a fair allocation of costs for an area with such a tremendous volume of beach generated business revenue.

It would seem that the only winners at this lopsided game are the local merchants. Once again, they have succeeded in pressuring county officials to pamper the almighty tourist as much as possible, placing the lion's share of the financial burden squarely on the shoulders of the local taxpayer. But where this load belongs is on the people who profit most from this legislation—the merchants themselves. Beachside hotels, shops and concessions gross in the tens of millions annually (largely during "peak" times such as spring break), but they will soon be exempt from any concession fees whatsoever. The food wrappers, cups and bottles which they sell litter our beaches, yet these merchants incur no special obligation to clean their mess up. These businesses are enjoying massive benefits from our beaches while paying only a small fraction of the operating costs involved. And make no mistake, despite their prime location, beachside businesses pay the same property tax mileage rate that other businesses do.

So if the philosophy behind the county's proposal is indeed "let those who use the beach, pay for it" then those who profit from our beaches should certainly be subject to the same treatment. It's time for the oceanfront business community to stand up and take responsibility for their messes, and stop sloughing them off on the county taxpayer.

Effects show from new aid law

Mark Siebert  
Associated Press

IOWA CITY, Iowa — Jeff Taylor returned for his third year of law school at the University of Iowa this fall and found his usual source of loan money had almost dried up.

Last year, Taylor applied for and received a \$5,000 guaranteed student loan. He applied for the same thing this fall and received \$38.

He's one of many college students at U of I and throughout the country affected by congressional changes in the D+ Higher Education Act, which includes the student loan program.

The guaranteed student loans are low-interest loans taken out through private lenders. They do not have to be paid back until after the student has finished school.

Mark Warner, U of I associate director of financial aid, estimated that more than a third of the students who qualified for GSL money at U of I last year either would not qualify this year or would qualify for less money.

He said about 850 students who qualified last year will receive no money at all.

The middle-income family is being affected the most, Warner said. It's shifting the burden of paying for education a bit more

back to the parents and the family." Warner said that since students can apply for GSLs throughout the year, the number of students affected would not be available until the end of the school year.

Unlike past years, students now must show financial need to qualify. Although most students were warned about changes last fall, many said they were surprised about the size of the cuts.

Before the changes, any student who had an income or whose family had an income less than \$30,000 could qualify for the maximum amount without proving a need for the money.

Students whose income or family's income was more than \$30,000 could also qualify for the maximum amount but had to show financial need.

Now, every student who applies has to prove a need for the money, based on Department of Education guidelines.

And although independent students like Taylor have about the same income, the new guidelines for those "in need" have made them ineligible.

The guaranteed student loan is the most costly Department of Education program, Warner said, and by far the largest loan program at U of I.

Last year, about 100 stu-

dents applied for the loan and about \$28 million was given out, he said. Money from Pell grants, Perkins Loans and college work-study programs total only about \$10 million.

There have been 6,500 applications for GSLs so far this year, he said, which is about the same as last year.

Warner said he doubted the change would help very many students from succeeding colleges because students have other ways of getting money, although they might not be as attractive as the GSL.

Those options include the Parent Loans for Undergraduate Students and Supplemental Loans for Students. The PLUS loan requires the payment on interest immediately with the payment of the principal deferred. With the SLS loan, both payments can be deferred but the balance accrues.

No payments need to be made on GSL loans until after graduation and the interest rates are slightly lower and interest does not build up.

According to the Chronicle of Higher Education, the Education Department expects a 15 percent reduction in the number of guaranteed loans to undergraduates and a 25 percent reduction in the number of loans to graduate students.

Balloon festival called because of rain

Associated Press

GREENVILLE, S.C. — Bad weather led to the cancellation of the traditional mass ascensions of hot air balloons at Freedom Weekend Aloft, but festival organizers have decided to try again next month.

Festival organizers announced Wednesday that a mass ascension featuring 30 to 50 balloons is scheduled for Oct. 10 at Dorseland Industrial Air Park.

Most students do not wish to go to the fest to fly either the P-14, F4U, A-6, S-3, or the AV-8B Harrier if it is the Marine Corps.

They will request a \$2 parking donation to defray costs, Fitzgerald said.

Those who wish to obtain more information on this event, or ballooning in general can contact Chip Zadow (Box 7268). Chip is a local Balloon Pilot, and an ERAU Aeronautical Engineering student.

Training makes the carrier pilot

Jeff Guzzetti  
Special to the Avion

Ed. This is the second story in a two part series on naval aviation.

fling a high-performance 'M' aircraft. According to Manning, basic jet students receive approximately 90 hours in the T-2C Buckeye, an aging jet trainer that has been around since the late 1950's. Soon to be replaced by the British Aerospace T-45 Hawk, the T-2 is a stubby, cigar-shaped tandem seat jet capable of speeds in excess of 400 knots per hour.

that allows pilots to accurately land on a small target. Ultimately, the small target will be the deck of an aircraft carrier.

Akin to the VASI lights that most airlines utilize within their terminal

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Akin to the VASI lights that most private pilots utilize during landing, each pilot must penetrate when he begins his approach. Here it is relatively easy to maintain a centered ball. But as the aircraft flies closer and closer to the touchdown point it becomes increasingly difficult to control the meathall. This is because the fringes of the meathall's light narrow, just as the bottom of a cone narrows. In fact, the pilot must attempt to fly down a projected cone that narrows to an incredible eight inches over the runway threshold.

Not to say, it takes hundreds of landings to master the ball in close, but if it is done correctly, the aircraft will always catch the third cable on an aircraft carrier.

Because the pilot must fully focus his attention outside of the cockpit during the carrier approach, a small instrument known as the AOA Indexer is mounted on top of the control panel near the cockpit plexiglass to provide visual cues. By illuminating amber arrows and lights, this annunciator commands the pilot to adjust his pitch and power to prevent stalling the jet. Once the pilot "rolls into the groove," he will no longer need to look at his instruments inside the cockpit; only visual cues from the AOA indexer and the meathall are needed.

Practice Makes Perfect

Approximately four months and a hundred landings after their first flight in the T-2, the time draws near

be free to the public, but officials



Ensign Manning "Moto" Guzzetti demonstrates to a precision landing during Field Carrier the fitness of following the "meathall" down Training Exercises at Meridian.

for the student pilot to prepare for the ultimate test — an actual carrier landing. It takes no less than ten more flights and 70 more landings to get ready for the moment of truth. All ten flights occur in one week of PCLP, or Field Carrier Landing Practice. The eleven flight culmi-

ation like an awesome task, the student are thoroughly prepared and are not perturbed with terror. They will do on a carrier deck exactly what they've done at Meridian over and over again.

Most students do well with their first experience on a carrier. If they don't, then they are given another set of ten practice flights for another go. Rarely is a student flunk twice, but if they do the Navy has no use for them as a pilot.

After successfully completing their carrier qualifications, the student pilots then transfer into the T-4A Skyhawk, a sleek jet that is once the backbone of the Navy's

attack wing. After a hundred hours of instrument and combat tactics, long hours, hard work and unswerving devotion. Few will argue, however, that this type of training is invaluable to the Naval aviator.

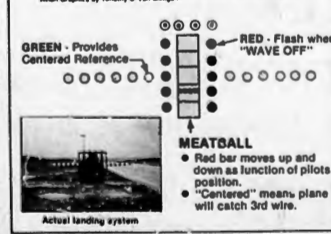
It takes approximately two years of training to become a full fledged navy jet pilot. . . two years of intense physical and mental hurdles, long hours, hard work and unswerving devotion. Few will argue, however, that this type of training is invaluable to the Naval aviator.

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POINT VALUE	LSO SYMBOL	DESCRIPTION
5	OK	Perfect Landing No Deviations
4	OK	Good Landing Minor Deviations
3	(OK)	"Fair Pass" Average Effort. Some Deviations
2	—	"No Grade" Below Average
2.5	⚡	"Botter" Touch & Go with Hook Down. Plane in Wrong Landing Altitude
1	WO	"Wave Off" Gross Deviations
0	⚡	"Cut Pass" Dangerous Approach

Note: Landing Safety Officer (LSO) grades every landing of every pilot at the time, while pilot is in the Navy.

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 Court 3 Bald Eagles vs

Brothers II  
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### Football Schedule 10/4

#### North Field

11:00am	Lambda Chi	vs	Air Force I
1:00pm	Sigma Pi	vs	U.S.M.C.
2:00pm	Brothers I	vs	Sigma Phi Delta
3:00pm	*Grim Reapers	vs	Vets Club
4:00pm	*Team Rho	vs	Sigma Chi
5:00pm	P.M.S.	vs	Delta Chi

#### Central Field

11:00am	Pine Lakers	vs	Third North
12:00pm	Bootleggers	vs	'Q' II's
2:00pm	Pythons	vs	Wolf Pack
3:00pm	Loopers	vs	Moving Violations
4:00pm	Tailhookers	vs	U. of Budweiser
5:00pm	Daytona 69ers	vs	Fourth N Long

#### South Field

11:00am	Hops	vs	Brew Crew
1:00pm	Rough Riders	vs	P.T. Pumpers
2:00pm	Predators	vs	Brothers II
3:00pm	The Dogs	vs	Force
4:00pm	Spukcuf's	vs	Queebers
5:00pm	Legion of Doom	vs	Bush Boys

\*Game subject to change.

Tailhookers .....33  
 Loopers .....0

#### Football Results

Sigma Pi .....19 Pine Lakers .....34  
 P.M.S. ....0 Chris Haynes .....0

Delta Chi .....7 The Hops .....18  
 U.S.M.C. ....8 Pythons .....12

Brothers of the Wind I .....W Third North .....12  
 ARMY R.O.T.C. ....F Force .....12

Rough Riders .....37 Daytona 69ers .....18  
 Brew Crew .....0 Wolfpack .....14

Brothers of the Wind II .....40 Predators .....8  
 Vets Club .....0 Forth N Long .....0

Air Force I .....19 The Dogs .....W  
 Sigma Chi .....8 Black Hawks .....F

Team Rho .....19 Garcia's Busch Boys .....W  
 P.T. Pumpers .....0 Divers II .....F

Sigma Phi Delta .....0 Boot'eggers .....45  
 Lambda Chi .....38 Queebers .....8

Spukcuf's .....0 Q'II's .....48  
 Grim Reapers .....35 Legion of Doom .....0



Photo courtesy Friends football

### Close play...

Lacrosse is a fast-paced, action-packed sport. The ERAU team has competed successfully over the past few seasons. The team once again has an active term planned. There will be intercollegiate lacrosse excitement on our Campus this Fall.

#### Tennis A Results -

##### First Round

Ed J. Fulop def. 6-5,6-1  
 Sean Saylor

Gullermo Gutierrez def. 6-0,6-2  
 Gaen Arislan

Glen Cunanan def. 6-2,6-2  
 Chris Rossi

##### Tennis B - First Round

Oral Martin def. 6-2,6-3  
 Chuck Stahl

Hans Prouty def. 6-3,6-2  
 Todd Edds

James Hyde def. 6-4,2-6,6-0  
 Tim Jerome

##### Second Round

Oral Martin vs.  
 Peter Casemira

Joseph Mitchum vs.  
 Mickey McDowell

##### Mixed Doubles - First Round

Shandi/Cress def.  
 Nikore/Lange 5-7,8-2,6-1

##### Mixed Doubles - First Round

Rasmuson/Taylor vs.  
 Blauhut/Phillips

Gaston/Gaston vs.  
 Gutierrez/Mera

Garcia/Behringer vs.  
 Chute/Steimer

Reeder/Welch vs.  
 Wheeler/Thompson

Fielded in the first half of the match were mainly the reserves, who found the going a little bit tough as far as penetration and goalscoring was concerned.

Halfway through the scrimmage James Idowu found the net after a brief goalmouth scuffle. Idowu has produced two goals for the Eagles

Continuing much of the play, a second goal came within two minutes. The game was called early due to a scheduling conflict. Man of the Match (MOM) Leo Glynos made some spectacular saves in goal for Icaros, keeping the game fairly close. Glynos is also the first team goalkeeper for the Eagles.

## Brian's Football Pool

Brian .500%

Predators	vs	Brothers II	✓
✓ Rough Riders	vs	P.T. Pumpers	
P.M.S.	vs	Delta Chi	✓
Pythons	vs	Wolfpack	✓
✓ Lambda Chi	vs	Air Force 1	
Hops	vs	Brew Crew	✓
✓ Sigma Pi	vs	U.S.M.C.	
✓ Pine Lakers	vs	Third North	
✓ Tailhookers	vs	U. of Budweiser	
✓ Daytona 69ers	vs	Fourth N Long	
✓ The Dogs	vs	Force	
Bootleggers	vs	'Q'II's	✓
Spukcuf's	vs	Queebers	✓

**TIEBREAKER:** Predict the score of any one game above. List teams with score.

**NAME:**  
**ERAU BOX:**  
**PROGRAM:**

**Rules of the contest:** Circle the team that will win the game. Return the game card to the Avlon or drop in Campus mail by the Friday before the games. The winner will be posted and will have his/her selections published in the following editions.

Last week's loser: Brian. He knew the strike would come and did not have the smarts to list the intramural contests.



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C152 Aerobal	\$33.00	Seminole (Twins) (2)	\$110.00
C172 IFR (6)	\$44.00	Seaplane (Lake Buccaneer) (Dual)	\$149.00
C172 RG	\$55.00	Beech Baron (Twin)	\$115.00
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being in... of Flight Team life.

While team members are expected to devote much of their spare time to practices, meetings, and public rela-

the pain... North Dakota and bring the national championship trophy home to Daytona where we all know it belongs!

While not everyone who applies

...were tallied at the end of the day, we found that most scores were equal to or better than the top 10 scores at last year's regionals.

...More information on Dr. Rinehart's speech will be released in a future issue of *The Avion*.

This Saturday marks another open party at the Rho house. It should prove to be another big success of ours. Also this weekend the brothers will be waterskiing with the new pledge class at Lake Diaz.

Turning to sports, AHP was victorious in its first football outing of the season. Fielding an extremely fatigued team, following two successive rush parties, AHP still easily routed the Vets Club 47-0.

In all fairness to the opposition, they did play a man short throughout the entire game.

Leading the offensive scoring was wide receiver Jim Howe, who was on the receiving end of two touchdown passes.

...had two interceptions both returned for touchdowns. The entire defense, led by defensive captain Dave "Nugget" Anderson looked very impressive in registering their first shutout of the season.

Leading the scoring in the extra point department was Jim Howe with a 2 point run, followed by Dave Anderson, Paul Chin-Fong, and Bob Briscoe with 1 point conversions each.

Team Rho looks forward to battling with and coming out victorious against the P.T. Pumpers this Sunday at 4 p.m.

Special thanks to Paul Chin-Fong for the sports edition.

# FELLOWSHIP

## Christian Fellowship Club

**James "Murph" Hyde**  
President

Greetings once again! I hope that this week's article finds everyone well and prospering in their studies.

This week I would like to share a few notes on the rather unusual topic of "Christian Lingo."

How many times have you been flipping through the T.V. channels and just happen to run across your favorite T.V. evangelist (yes, there are many legitimate ones out there), heard a group of Christians talking, or maybe read some kind of Christian literature, and ran across what seemed to be some really far-out lingo such as the terms, "born again," or "getting saved," or "being

washed in the blood."

I certainly understand how different some of these terms might seem to someone who maybe hasn't been exposed to what the message of the Gospel is really all about.

So I'll just start from the top and we'll see what *The Bible* has to say on some of these terms.

O.K., how about this "born again" stuff? Well, Jesus said, "I tell you the truth, unless a man is born again he cannot see the kingdom of God." (John 3:3)

And later on in the same passage of scripture he said, "Flesh gives birth to flesh but the spirit gives birth to the spirit."

You should not be surprised at my saying, "You must be born

again." (John 3:6,7) So what Jesus is saying there is that in order for anyone to enter into the kingdom of God (heaven), they must experience a second birth.

Not meaning that of a natural human birth (that's kind of impossible), but Jesus is speaking of a spiritual birth.

See, in a nutshell, the reason that God sent Jesus here to earth was so that by believing in him as being the one and only Son of God, we might be forgiven of our sins, reconciled to God, filled with his Holy Spirit, and thus given that newness of life that Jesus talked about so much when he was here.

Another time he spoke of this when he said, "I tell you the truth,

whoever hears my word and believes him who sent me has eternal life and will not be condemned; he has crossed over from death to life." (John 5:24)

I certainly hope that this article has brought some more understanding to some questions that you might of had.

If these words that Jesus spoke do have meaning to you, and you wish to receive this newness of life, just say a simple prayer, and tell God that you want to make Jesus the Lord of your life and that you want to turn away from your sins, and you will be "saved."

That's right, "saved." I'll have to hit or that one next week. See you then!

# ΘΦΑ

## Theta Phi Alpha

**Marnie Sablan**  
Secretary

The week of our rush parties is finally here. A great deal of thanks and appreciation go out to all those girls who worked extremely hard over the summer months, and the other girls who pitched in once they got back, for making this rush season very successful.

The excitement and enthusiasm is tremendous between the sisters. We are looking forward to the time when we will unite our new friends into the bond of sisterhood.

A sister's work is never done so a few sisters attended a "Family Night" at chateau Vivion Nursing Home on Monday. It was here that we participated in a discussion dealing with the needs of the elderly. We hope that through meeting their needs by volunteering our time, we may make a difference in someone's life.

Theta Phi Alpha not only helps out in the community but also with

functions within the University. One of these functions was the Alumni Reunion that was held this past July. It was an excellent opportunity for us to get to know the alumni and learn what the job market may be offering.

The University has again opened the doors for a fantastic opportunity. They have invited a few sisters to join them in attending the National Business Aircraft Association (NBAA) convention being held in New Orleans from Sept. 29-Oct. 1. Marnie Sablan, Mary Bellm, and Angie Becraft will be attending the convention and helping with the alumni functions as well as gaining invaluable experience and education.

This trip will also tie in with a visit to our sister chapter of Theta Phi Alpha at Lyola University. The Alpha Beta chapter have a few activities planned and we are looking forward to getting to know them better.

# BOW

## Brothers of the Wind

**Earl Stephens**  
Public Affairs

We held our first meeting on Friday Sept. 18 and the turnout was excellent. We hope to see each and every one at the next meeting on Nov. 2. (Same place, same time E-609). We had a very productive meeting, and a lot was accomplished.

We heard the president's report on the summer and spring semester.

Our alumni file has been started with the preliminary information sheets. (If you haven't done one, get one in!) Gary Hudson gave his report on the progress of the Scholarship committee, and Courtney Crockett (activities coordinator) gave her report on an upcoming club trip.

The subject of speakers attending meetings was discussed by the President. We plan to bring in more professional minorities to speak to the student body.

In order to do this we need a definite support by our member when we do. As the president said "what purpose does a speaker serve when there's no one to listen". So let's show our interest and support when a speaker visits.

The club flag football Brothers of the Wind I, led by Felix Walker (quarterback) has a forceful victory against the P.M.S. squad 18 to 6. The Brothers II squad didn't do as well, but Eric Moreno made three outstanding catches including a 30 yard touchdown pass.

Our volley and basketball teams have also been formed and have had their first practice. We are looking forward to intense volleyball and basketball competition with our three competitive volleyball and five competitive basketball teams.

We'll folks, were rollin right along in the semester, everything is off to a good start. Let's keep the momentum, spirit and most of all grades up this term.

# AIAA

**Keith Winn**  
Club Writer

On Wednesday September 16, 1987 the American Institute of Aeronautics and Astronautics participated in clubs and organizations day in the university center. This gave incoming students a chance to find out what the AIAA is all about. Club members manned the booth and answered questions about the

organization. A total of 60 interested persons signed our prospective member sheet. Good job! Thanks to all the members who participated and made C & O day a great success! Thanks also goes to all the people who helped with the open house on Friday Sept. 18. This gave freshmen and sophomores a good idea of what they were getting into and what to expect in the coming years.

# ΔΧ

## Delta Chi

**John G. Fink**  
Public Relations Chairman

Congratulations to our new associate members. We have a large and well rounded pledge class this fall. The brothers wish them good luck in their pledge period.

With the guidance of an experienced and well respected brother Dan Marotti, this should be the most productive pledge class ever.

The football team had its first game last week. The game was not a success due to the incompetence of the veterans. The Football team has been practicing hard these past two weeks, so we are looking forward to

the oncoming games and a winning season.

The bowling team has been rocking up the pins, winning our first two games of the season. Special thanks to Romero Montifur for organizing all the sporting events.

Our fundraising chairman Jim Missouri has been working hard in getting our fundraising events underway. The fraternity will be working at the Ocean Center for some concerts and sporting events. The race track will be our main fundraiser and that will be in October.

# New force opposing gravity found

Lee Siegel  
Associated Press

LOS ANGELES — Scientists have uncovered new evidence suggesting that gravity is counteracted by a "fifth force" that would make a feather fall ever so slightly faster than an iron ball.

"Our results are consistent with the existence of a fifth force. It's good evidence, but not conclusive," Paul Boynton, a physicist-astronomer at the University of Washington, said Friday during a telephone interview from Seattle.

Scientists have identified four fundamental forces they say govern behavior of all matter in the universe.

"They are gravity, which attracts objects to each other; electromagnetism, which creates light, radio waves, microwaves and other types of radiation; the strong force, which binds neutrons and protons together in the nucleus of an atom; and the weak force, which makes some atoms break down in radioactive decay."

The study by Boynton and his

colleagues will not settle debate over whether a fifth force exists to counteract gravity, but "certainly makes it somewhat more plausible," said Stanley Brown, an editor of the journal *Physical Review Letters*, which will publish the study Monday.

In an experiment supposedly conducted 400 years ago, Galileo found that when two objects of different weights were dropped from the Leaning Tower of Pisa, both hit the ground at the same time, contrary to the logical notion that heavier objects fall faster than lighter ones.

If a fifth force exists, it would slightly counteract gravity so a ring in a different way based on the differing chemical composition of the two halves, so the force counteracted gravity's pull on beryllium more strongly than it counteracted gravity's pull on aluminum.

"Everybody working in the field perceives this as a major step forward," Purdue University physicist Ephraim Fischbach said during a telephone interview from West Lafayette, Ind. "It's extremely important, although nobody wants to claim this proves the fifth force."

aluminum, while the other half was made of beryllium. Both halves of the ring had the same mass, which is what gives an object weight when the object is pulled by gravity.

Because gravity exerts the same attraction on two objects of the same mass, both halves of the ring should have been pulled slightly toward the cliff if only gravity influenced the ring. Instead, Boynton found the aluminum half of the ring twisted slightly toward the cliff while the beryllium half rotated away from the cliff.

That suggests an unknown force was affecting the two halves of the ring in a different way based on the differing chemical composition of the two halves, so the force counteracted gravity's pull on beryllium more strongly than it counteracted gravity's pull on aluminum.

"Everybody working in the field perceives this as a major step forward," Purdue University physicist Ephraim Fischbach said during a telephone interview from West Lafayette, Ind. "It's extremely important, although nobody wants to claim this proves the fifth force."

Last year, Fischbach published a widely reported analysis that proposed the existence of a fifth force.

The American Institute of Physics said Boynton's experiment represented "the most sensitive experiment conducted to date in determining whether a fifth force exists."

Like previous studies, Boynton's experiment measured the strength of the fifth force is related to the makeup of an atom rather than its mass.

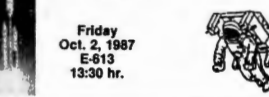
However, prior research indicated the strength of the fifth force's anti-gravitational effect was related to a measure of composition called hydrophobicity, or the number of protons plus the number of neutrons in an atom.

Boynton's study and his review of earlier experiments suggests the fifth force is related to a measure of composition called isospin, which is a number of neutrons minus the number of protons.

Physicists believe the fifth force counteracts gravity only over about 10 to 1,000 yards.

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# NASA says it will study a vehicle for space cargo

National Aeronautics and Space Administration

WASHINGTON D.C. — NASA said it would initiate a study of a heavy lift launch vehicle that could use the engines, solid rocket boosters, external fuel tank and launch facilities of the present Space Shuttle. The Shuttle orbiter could be replaced by an unmanned cargo element.

The chief purpose of the study, the agency said, is to determine whether the vehicle, tentatively known as Shuttle-C (for cargo), would be cost effective in assembling and operating the Space Station.

The results of the study will be considered part of the studies already underway of a heavy lift launch vehicle. This vehicle, known in minimum vehicle development cost as the Advanced Launch System and schedule risk and to assure (ALS), is being jointly studied by payload compatibility with the existing Air Force and NASA. Elements using Space Shuttle payload environment of the modular ALS also will be considered as alternatives for aiding in cost effective, such a vehicle Space Station assembly and/or operations. A joint DOD/NASA steering group will monitor the progress of the studies.

The NASA-led Shuttle-C study will include Air Force participation and concentrate on minimum modification of existing systems and facilities.

The Air Force-led ALS study, which includes NASA participation, concentrates on systems incorporating advanced technologies. The results of the Shuttle-C efforts will be integrated with the other ALS studies and enable the steering group to formulate national heavy lift vehicle strategy that may best accommodate both near term requirements, such as Space Station assembly and longer term objectives for reduced space transportation costs.

The agency said the Shuttle-C study will focus on the early heavy lift capability making maximum use of existing Shuttle systems to launch vehicle. This vehicle, known in minimum vehicle development cost as the Advanced Launch System and schedule risk and to assure (ALS), is being jointly studied by payload compatibility with the existing Air Force and NASA. Elements using Space Shuttle payload environment of the modular ALS also will be considered as alternatives for aiding in cost effective, such a vehicle Space Station assembly and/or operations. A joint DOD/NASA steering group will monitor the progress of the studies.

see NASA page 9

## Next week

In Space Technology:



## Sputnik's anniversary

## New Shuttle being prepared for NASA

By Ken Bascom  
Avion Staff Reporter

Construction has begun on a new space shuttle orbiter to replace Challenger. The new shuttle will be identical to the orbiters *Atlantis* and *Discovery*, but will include over 200 modifications in the wake of the Challenger accident.

Rear Admiral Richard H. Truly, associate administrator for space flight, said: "The completion of these negotiations and the commencement of full production of this new orbiter mark a major milestone in our return to safe, reliable and effective space flight. Those government and contractor people who oversee and construct this spacecraft are setting out on a task which is of the utmost importance to

America's future in space."

Many changes for the new orbiter have been instituted from the modifications on the other orbiters in the return to flight program.

Some modifications include, upgrading the reaction control system (RCS) to prevent sticking or continuous dumping of RCS fuel overboard. Redesigned carbon-carbon brakes were also instituted to resolve brake problems, including overheating and blowouts.

Other elements required to complete procurement of the hardware lot in the STS 51-L accident include the Space Shuttle main engines, crew equipment and support services.

Rockwell International was awarded to be the prime contractor for the \$1.3 billion project. Plans are

to hire supervisory and planning personnel as project programs are initiated.

Under terms of the contract, Rockwell will fabricate, assemble, test, check out and deliver the orbiter within 45 months using existing structural spares, and left over construction structural assemblies.

Approximately 2,000 jobs will be filled during peak construction at the Downey and Palmdale plants.

Management and some fabrication will take place at the contractor's plant in Downey. Additionally, it is anticipated that a significant percentage of the work will be performed by more than 100 subcontractors for components and support services. Assembly and checkout of the orbiter will take place at the Rockwell facility in Palmdale, Calif.

## Sputnik's anniversary

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see NASA page 9

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# NASA names STS-27 crew

By Chip Zedrow

The National Aeronautics and Space Administration has announced the five crew members for the next shuttle flight, STS-27. The flight is scheduled to launch Atlantis in the early fall of 1988 and is reserved for the Department of Defense (DOD).

The crew members are Robert L. Gibson (Cmdr., USN), commander; Guy S. Gardner (Lt. Col., USAF), pilot; and mission specialist Richard M. Mullane (Col., USAF). Jerry L. Ross (Lt. Col., USAF) and William M. Shepherd, (Cmdr. USN). Ross flew as a mission specialist on STS-61B in November, 1985. Three satellites were successfully deployed on STS-61B, Atlantis' second flight.

Gibson was pilot of STS-41-B in February, 1984, and commander of STS-61C in January, 1986. STS-41B was the test flight of the Manned Maneuvering Unit. Two satellites were also successfully deployed during the flight, but failure of their Payload Assist Module rocket motors left them in radial low-Earth orbits. STS-61C's highlight was it's record number of delays due to weather and mechanical difficulties.

Mullane was a mission specialist on STS-41D in August, 1984. This was *Discovery*'s maiden flight. With three satellites being deployed and a 105-foot tall solar array having been tested, the flight itself went without difficulty.

STS-27 will be Gardner's and Shepherd's first flights into space.



NASA photo

STS-27 crew members from top to bottom (L to R) are Richard Mullane, Robert Gibson, Jerry Ross, William Shepherd, and Guy Gardner.

# NASA

(continued from page 6) test bed for new Shuttle boosters. The Shuttle-C would be able to lift 100,000-150,000 pounds into orbit.

The availability of such a vehicle for Space Station assembly would free the Space Shuttle for increased work in all the sciences — solar system exploration, astronomy, life sciences and materials processing experimentation. Progress in all these areas was severely constrained by the Challenger accident, and there is a pressing need for the nation to catch up, according to numerous studies.

NASA said it would seek answers to the following questions in its Shuttle-C study:

- 1) With the exception of the orbiter, can the other major hardware elements of the Space Shuttle be used?
- 2) Can present Shuttle ground facilities be used without change?
- 3) Can the Space Station be effectively and safely launched on the Shuttle-C? This will require a detailed analysis of cargo carrier loads in relation to other elements of the system.

# UFOs are an idea of the past

By Chip Zedrow

"Project Blue Book," the Air Force program for UFO investigations began in 1947. The project, which had no assistance from NASA, was terminated in December, 1969 after an unsuccessful attempt at documenting actual UFOs.

There were three primary reasons for its cancellation. The first being an evaluation of a report by the University of Colorado entitled "Scientific Study of Unidentified Flying Objects." The second was due to lack of actual evidence in USAF investigations.

logical advanced principle or society; (3) and finally there has been no actual proof of sightings of extraterrestrial vehicles. With the termination of "Project Blue Book," the Air Force transferred all material and documents regarding the project to the Modern Military Branch, National Archives and Records Service, 8th Street and Pennsylvania Ave., N.W., Washington, DC 20540. All submitted information is available for public review and analysis. Those wishing access may obtain a researcher's permit from the National Archives and Records Service.

and the third was from a review of the University of Colorado's report by the National Academy of Sciences. All three reasons appeared to conclude that there has been no actual proof of extraterrestrial visitation. After two decades of research and investigation by the USAF, the conclusions drawn were: (1) no UFO reported, investigated, and evaluated by the Air Force has ever given any indication of threat to our national security; (2) there has been no evidence submitted to or discovered by the Air Force that sightings labeled as unidentified were actually proof of a higher or more techno-

# Modern tales of extraterrestrial spacecrafts are still heard

Mitch Weiss Associated Press

over 80,000 good cases on file in Chicago.

LIMA, Ohio -- When John Timmerman gazes at the night sky for stars he also looks for unidentified flying objects.

Timmerman, a marketing vice president for a Lima savings and loan, is also vice president of public relations for the Center for UFO Studies in Chicago. He has interviewed hundreds of people who claim to have seen UFOs and some who said they had been abducted by extraterrestrials. "Often they see the planet Venus and they don't recognize it," he said. "Sometimes under the right conditions, Venus, and sometimes Jupiter, can be seen in the daylight. You have to know a little bit about astronomy and a little bit about human psychology."

He says there have been 40 to 50 UFO sightings in the Lima area that he considers valid. Because he has gone public with his research, he feels more people in the area are apt to come to him if they see something in the sky they can't explain.

"They know I'm interested in the subject so they're willing to talk," he said. "That might occur elsewhere if there were a John Timmerman in Toledo or someplace else who had great visibility to trust and take the information."

He became interested in UFOs shortly after graduating from Cornell University in 1947, the year he read a newspaper account of a pilot who said he had seen nine silver objects hover near his plane. Timmerman calls that the first publicly discussed UFO sighting.

Timmerman has never seen a UFO, but says he takes a battery of questions of those who have to determine if the sighting can be explained.

"I'm not saying it was an extraterrestrial craft or UFO... it's just that we don't know yet what it was. Many of these things end up being explained. But the ones that don't are the ones that remain in the file as the material from which we do statistical studies of those. We have thousands of those. We have

involved in a study at Ohio Northern University which examines UFO sightings in the Midwest. His interest in the subject waxed and waned until 1979, when someone from Ohio State University who was active in UFO research spoke to a local group. After the lecture, Timmerman told her of his interest and she recommended he contact the Chicago center.

He was asked to join its board of directors. He now helps the center with publicity and recently attended the 42th annual Manual UFO Network International Symposium in Washington. About 450 people attended to listen to UFO specialists talk about developments in the alien world.

The major topic at this year's symposium was the abduction phenomenon.

He said reports of abductions by some type of space entities were not new, but that widespread understanding of them was.

"I believe the people are thoroughly convinced it happened to them," he said. "I can't say I'm thoroughly convinced it happened to them myself. It's possible that things may be occurring and we just don't comprehend them because at this point it's beyond our understanding."



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**ΣΧ** Sigma Chi

Eric p. Hookman  
Chapter Editor

Another successful rush comes to a close for the Brothers of Sigma Chi, and they hope that everyone who came had an awesome time. It is important that each fraternity here on campus have a rush, because this is the main way that fraternities find out about prospective members.

It is with this thought in mind, that every Sigma Chi rush is carried out, and anyone who may be interested in Sigma Chi gets a chance to find out what it is all about. The Brothers hope that all who wanted to become Sigma Chis had the opportunity to talk about the Frater-

nity, and make an educated decision about the Greek way of life.

A huge thanks goes out from the Chapter Kio their Rush Chairman Gregg Duzinski, Gregg gave his time and effort to provide Embry-Riddle students with a Rush that was a milestone in Eta Iota's history.

The Sigma Chi intramural football team won its first victory in a stunning display of organization, and teamwork. Sigma Phi Delta was the first victim of the mighty Blue and Gold, with a score of 19-6. The Brothers had an excellent turnout of support in the form of their Little Sigmas, and other Brothers who did not play in the game. It is anti-

ipated that their volleyball team will do no less in their first game.

One of the first planned fund-raisers of the year will be a balloon launch on Oct. 3, to benefit the National Center for Missing and Exploited Children, an international project of Sigma Chi. The Brothers will be selling sponsorships of balloons until Oct. 3.

Also planned for the near future is a retreat for the Brothers, consisting of a bowling party. This event went off very well last spring, and promises the bonds of Brotherhood, a feeling that runs very deep and very strong in their Chapter

**NAVAL** Naval Aviation Club

Kathy Ward  
Public Affairs Officer

The first meeting of the Naval Aviation Club was on Wednesday Sept. 16. The guest speaker at the meeting was Lieutenant (j.g.) Don Berry. Lt. Berry is an April '85 engineering graduate. He is currently stationed at the FA-18 Hornet replacement squadron at NAS Cecil Field. Lt. Berry brought a heads up display (HUD) video tape of some of his recent flights. The HUD system was explained and how it helps the pilot in the fly-by-wire FA-18 Hornet. After the presentation, questions from those present were answered by Lt. Berry.

The Naval Aviation Club is an organization of students interested in Naval Aviation. This club has no official affiliation with the United States Navy. Its purpose is to bring together, inform and motivate anyone interested in Naval Aviation. Trips to aircraft carriers, simulators, Pinacaste Electronic Warfare Range and Pensacola are scheduled throughout the semester.

Questions or suggestions can be made to the club President, Cary Kotter at 237-6891 before 10 p.m., the Vice-President, Bob O'Donnell at 232-6208 before 9 p.m. or with the club advisor, Mr. Byington in G-114A.

The next meeting of the Naval Aviation Club is Wednesday Sept.

30 at 7 p.m. in A-109. The scheduled guest speaker is Lt. (j.g.) Mike Fishery, a United States Coast Guard pilot, and a '83 graduate of ERAU. His Falcon aircraft will be on display from approximately 3 p.m. - 5:30 p.m. on Wednesday Sept. 30. The local Navy recruiter, Senior Chief Chambers, who keeps the club informed on what is happening with the Navy today will be present to answer any questions posed. Also, Dr. S.R. Klare, a local optometrist will be present for quick eye-screening for anyone interested. This promises to be a busy meeting. Remember Wednesday Sept. 30 in A-109 at 7 p.m.

Come see what the Naval Aviation Club is all about.

**RIDDLE RIDERS - ΣΦΔ** Sigma Phi Delta

Jerry Haley  
Club Writer

The Riddle Riders went on a fun run with Robinson Harley Davidson this past Sunday.

It was a relaxing ride through Tomoka park. There were a lot of fun, and exhilarating new rides to explore.

Flash was the only rider to win a prize. He is now the proud owner of a Harley Davidson Silver Anniversary Cap. "WOW"

There were four "H" bikes on this ride: leading, around two Yamaha's, a Kawi, and a Suzuki.

Manatic, on an "H" bike proving his superiority, has to keep them all in line.

Skiman's excuse was a slight high speed wobble. The VFR owner just need a little practice. (Keep Trying).

The two Yamaha's gave up in the race; realizing the "H" bikes inferiority.

Until next Sunday the "H" bikes are still king of the hill.

Gary Gladd  
Historian

Rush is now half over for Sigma Phi Delta, and so far we've been very successful. Our first party brought in a good group of pledges. One more and there would be more of them than us.

As soon as they were initiated we dragged them all off to a football game and a fundraiser. If we can keep this level of enthusiasm in both the brothers and pledges, we could

surprise a few people during Greek Week this year.

Our social calendar is shaping up with both parties and outings being planned, including the possibility of the post Greek Week Toga Party. More on that when details are finalized.

October has been recognized as official birthday month so we'll have one massive party for half of the Fraternity.

One final note to the pledges, don't be strangers, come by the house and look for us in the U.C. We're always around.

**ΛΧΑ** Lambda Chi Alpha

Michael Teyman  
Fraternity Writer

This past weekend concluded the formal rush of Fall 1987, for Lambda Chi Alpha. Again, the party was a smashing success, dry as were all of the other fraternities.

We would like to welcome all of the new prospects, and congratulate those who have been given bids to associate. These men, if they decide to accept their bids, will become equal to the brothers in every thing.

For those who want a clean car, come to our Purple, Green and Golden anniversary car wash jubilee on Saturday at the Amoco on the corner of Nova and Bellevue.

but higher fraternal knowledge. Remember, at Lambda Chi Alpha, it is "Don't Pledge us, join us." For those of you who are still interested in learning more about Lambda Chi, stop by our meeting this Monday at A-109.

In the intramural world of ERAU, Lambda Chi has shown great promise in both football and volleyball. Sports supervisors Steve Barton and Ron Lopez has pulled together quite an impressive display of athletic talent for a dorming football team.

It looks like the Fraternity of Honest Friendship is headed full throttle into an excellent semester of business, pleasure, work, and activities.

**ERAS** Embry-Riddle Aerospace Society

By John DeVincenzo and  
Chip Zodrow

Since this is our first article in the Avion for the semester, the ERAU Aerospace Society (ERAS) would like to welcome back all continuing members and also to welcome all our new members. A reminder to all during the week of Oct. 5 to Oct. 7

our seventh annual Space Week will take place and we would like all to participate in the event. We would also like all to contribute as many ideas as possible. Also, keep an eye out for our "laser print" that will be taking place sometime in the future.

Last Thursday night ERAS had the world famous Mr. Gatti's Pizzeria. Both new members and old

members were there, thus allowing everyone to become acquainted. Everyone got more than enough to eat, and also thoroughly enjoyed "Gibbousness."

Oct. 25 will be the upcoming date for the model rocket competition in West Palm Beach. Contact Tim Van Milligan (ext. 7745) for more information. Competition hand

books are available from Ron Dan-towitz (student activities box.)

Tonight at 5:30 p.m. on field two, we battle it out in our first volleyball game against Lambda Chi Alpha. All that wish to play are encouraged to show up. Also, tonight is round two for the "points for prizes" so try and attend the meeting at 7:00 p.m. in the CPR.

**Hit the bulls-eye with the ERAU Archery team**

for more information contact  
Manny at Box 6882 or the Recreation Office.

# — BAHAMAS —

FOR THE FUN, THE SUN AND THE RUM

Weekend Flights to Freeport in the Bahamas.

Leave Saturday Morning, Return Sunday Evening.

Available Every Weekend

**\$179 (Room included)**

Something New For ERAU Students



Phoenix East Aviation

904-258-0703

Member of National Air Transport Association

Bloom County

Berke Breathed

Shoe

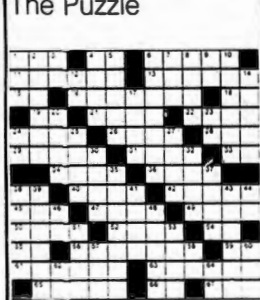
Jeff MacNelly



The Puzzle

The Far Side

Gary Larson



- ACROSS
- 1 Time gone by
  - 4 That man
  - 6 Country of Europe
  - 11 Surgical tool
  - 13 Articles of furniture
  - 14 Baby's name daily
  - 16 Latin verb
  - 18 Latin verb
  - 21 Antiquated animal
  - 22 Current
  - 24 Twisted
  - 25 Light on
  - 28 Weight of -ica
  - 29 Church's principal
  - 31 B-r-it
  - 32 G-l-e-m-e-a-r
  - 33 G-l-e-m-e-a-r
  - 34 G-l-e-m-e-a-r
  - 35 G-l-e-m-e-a-r
  - 36 G-l-e-m-e-a-r
  - 37 G-l-e-m-e-a-r
  - 38 G-l-e-m-e-a-r
  - 39 G-l-e-m-e-a-r
  - 40 G-l-e-m-e-a-r
  - 41 G-l-e-m-e-a-r
- DOWN
- 1 Devoured
  - 2 Fragments of rock
  - 3 Flame islands
  - 4 Out of meat: pt
  - 5 Drowning out
  - 6 Tatter
  - 7 Garter's spruce
  - 8 Encourages
  - 9 Negative profits
  - 10 Wanned
  - 12 Hebridean letter
  - 14 Cubic meter
  - 17 Broom
  - 20 Goals
  - 23 Eggs
  - 24 Western order
  - 25 Measure
  - 26 Shem
  - 28 Not later than
  - 31 Depends on
  - 32 Lunatic scabbie
  - 35 Doctrine
  - 36 Comedian's name
  - 37 Soak, as flux
  - 38 Shiny flower
  - 39 Multiple instrument
  - 41 Job
  - 43 Balaclava
  - 44 Therapist
  - 46 Old-fashioned
  - 48 Gives food to
  - 51 Turt
  - 53 Winner
  - 57 Brain attachment
  - 57 Famous hull
  - 58 Pull
  - 60 Bull
  - 62 French article
  - 64 Physicist's tool



See Solution, page 13

Needs in hell

Scene from a corporate lobby tale

# The Puzzle



**ACROSS**

- 1 Time gone by
- 4 That man
- 6 Country of Europe
- 11 Surgical saw
- 13 Articles of furniture
- 15 Babylonian deity
- 16 Issue forth
- 18 Latin
- 19 Brother of Odin
- 21 Antlered animal
- 22 Current
- 24 Twisted
- 26 Urges on
- 28 Weight of India
- 29 Church official
- 31 Bratle
- 33 Prefix: down
- 34 Go by water
- 36 Unusual
- 38 Equalty
- 40 Debatable
- 42 Ceremonies
- 45 Secret agent!

**DOWN**

- 40 Extract: flightless bird
- 50 Cravats
- 52 Periwinkle
- 54 Symbol for nickel
- 58 Printer's measure
- 56 Sham
- 59 Not later than
- 61 Depends on
- 63 Aimless scribble
- 65 Doctrine
- 66 Compass point
- 67 Soak, as fax
- 12 Hebrew letter
- 14 Cubic meter
- 17 Scotle
- 20 Goals
- 23 Excess
- 24 Written order: abbr.
- 25 Athletic group
- 27 Asterisk
- 30 Disturbance
- 32 Dry
- 35 Nonsense
- 37 Short jacket
- 38 Showy flower
- 39 Musical instrument
- 41 Jog
- 43 F accident
- 44 Thrastore
- 46 Old pronoun
- 48 Givas food to
- 51 Teart
- 53 Winter precipitation
- 57 Female ruff
- 58 Pullin
- 60 Sull
- 62 French article
- 64 Physician: abbr.

See Solution, page 13

## The Far Side

Gary Larson



"Let go, Mory! Let go, Mory! You're pulling me in! ... Let go, Mory! You're pulling me in!"



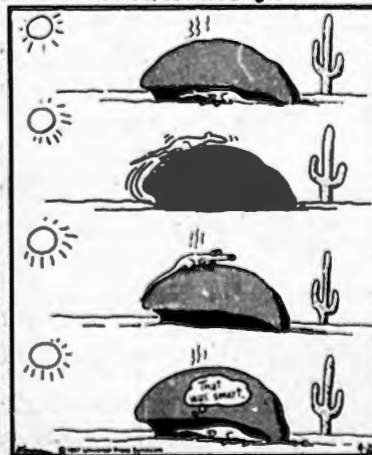
"Yes, yes, I know that, Sidney ... everybody knows that! ... But look: Four wrongs squared, minus two wrongs to the fourth power, divided by this formula, do make a right!"



"Consider yourself fortunate, Betsy. ... As curses go, that sure beats having your descendants strangled in the night by a walking corpse."



Nerds in hell



Scene from a corporate fairy tale



# New Parking Regulations

The following parking and traffic rules and regulations have been adopted by Embury-Riddick Aeronautical University for the safety of all people using the Daytona Beach Campus facilities. Every person driving or parking a vehicle on University property must abide by all ERAU parking and traffic rules and regulations as well as all local, county, and state laws and ordinances.

## V. VEHICLE REGISTRATION

- A. All faculty, staff, and eligible students who wish to operate a vehicle on campus must register that vehicle with the Safety Department. Vehicles include, but are not limited to, automobiles, vans, trucks, motorcycles, mopeds and bicycles.
- B. All registration decals purchased from January through December 1987 will expire on December 31, 1987. All decals for vehicles registered in January 1988 will expire at the end of Summer (term B) 1988. (Registration decals will be valid for one academic year beginning Fall 1988).
- C. State vehicle registration, a valid driver's license and proof of insurance must be presented at the time the vehicle is being registered.
- D. Vehicle registration allows parking in designated areas, according to the type of registration. Registration does not guarantee availability of parking spaces but grants the privilege of parking in specified areas WHEN SPACE IS AVAILABLE.
- E. The ERAU vehicle registration decal must be clearly visible and properly displayed on the left rear bumper or affixed to the outside of the rear window in the bottom left corner. Motorcycles and mopeds must affix the decal in a visible position on the left front fender. Bicycles must affix the decal, with the number visible, on the seat post pipe.
- F. ERAU vehicle registration decals are non-transferable from one individual to another or from one vehicle to another.
- G. DUPLICATE DECALS - Individuals owning two (2) or more vehicles may contact the Safety Department and register additional vehicles free of charge.

## VI. REGISTRATION FEES:

TYPE	FALL 1987		SPRING 1988		SUMMER 1988		FALL 1988*	
	REG.	INSUR.	REG.	INSUR.	REG.	INSUR.	REG.	INSUR.
Auto/truck student	\$4	\$8	\$4	\$4	\$12			
Auto/truck faculty/staff	\$3	\$10	\$3	\$5				
Motorcycle/moped	\$2	\$3	\$2	\$4				
Bicycles	—NO CHARGE—							

\*Spring 1988 fees include registration through Summer 1988.  
\*\*Fall 1988 fees are for one full academic year.

- 1. Revenue generated from all vehicle registration fees is deposited into a reserve account that provides funding for the development, upkeep and maintenance of parking areas on University property.
- J. SPECIAL PERMITS AND PRIVILEGES:
  1. HANDICAPPED PARKING - Individuals who are permanently or temporarily disabled may make special parking arrangements by contacting the Health Center for a Medical Permit to park in handicapped spaces.
  2. Temporary vehicle permits are available in the Safety Department. All traffic and parking regulations apply to holders of temporary permits as well as to other visitors and vendors on University property.

## III. GENERAL PARKING REGULATIONS

- A. Parking is permitted ONLY in the following designated areas:
  1. STUDENT PARKING - Monday through Friday 6 a.m. to 6 p.m. ONLY. Student parking in parking areas designated as Student Parking.
  2. FACULTY/STAFF PARKING - Monday through Friday, from 6 a.m. to 6 p.m., ONLY faculty and staff may park in parking areas designated as Faculty/staff parking. Student employees of the University must park in student parking during the hours previously stated.
  3. MOTORCYCLE/MOPED PARKING - Motorcycles and mopeds must be parked ONLY in areas designated for their parking. Two wheel vehicles are NOT to be parked in four wheel spaces.
  4. RIDE SHARE PARKING - Bicycles registered for the ride share program may park in any space designated as "Student Ride Share Parking." Faculty/staff registered for the ride share program may park in any parking space designated as "Faculty/Staff Ride Share Parking."
  5. VISITOR AND HANDICAPPED PARKING - Visitors and handicapped individuals may park in designated spaces. Faculty, staff and students are prohibited from parking in visitor and handicapped areas unless authorized.
  6. UNIVERSITY VEHICLE PARKING - University vehicle parking spaces are located in various areas on campus. No person may park in the spaces reserved for University vehicles unless authorized.
    - B. Bicycles must be secured ONLY to bicycle rack provided on University property.
    - C. The 10-minute parking circle behind the University Court is provided as a convenience for Faculty, Staff and Students. Parking in NOT permitted in the center of the circle.
    - D. Vehicles within a space shall not overlap the lines that designate the space. All vehicles shall pull forward into space. Vehicles leaving a parking space will do so in a manner consistent with the flow of traffic.
    - E. Overweight vehicles, cannot be towed by campus trailers and other towing systems may NOT be parked on University property unless authorized.
    - F. Vehicles may not be left unattended on University property for more than three (3) consecutive days without the prior written permission of the Safety Department. Persons desiring to leave vehicles on University property over holidays, or other extended periods, should notify the Safety Department.

## IV. RIDE SHARE REGULATIONS

- A. TWO (2) or more people may apply for a ride share permit. Only a limited number of ride share permits are available. Ride share permits will be issued on a first come, first serve basis.
  - B. Each person registering his/her vehicle for a ride share permit must first register his/her vehicle according to the parking and traffic guidelines and pay the appropriate fee for an individual registration decal, there is no additional charge for a ride share permit.
  - C. The ride share permit must be appropriately displayed on the dashboard when the vehicle is parked in a ride share parking space.
  - D. The ride share permit is transferable from one vehicle to another as long as all vehicles are registered under the same ride share permit.
  - E. Two(2) or more people must be in the vehicle in order to enter designated ride share parking spaces. If only one person is in the vehicle, the vehicle cannot be parked in ride share parking.

## V. ENFORCEMENT

- A. ERAU full-time and student Safety Officers are assigned enforcement responsibilities along with all State, County, and City Law Enforcement Officials.
- B. Citations will be issued for violation of any traffic and parking regulations. Each registrant is responsible for any violations attributed to his/her vehicle(s), regardless of who may be operating the vehicle. It is the responsibility of the registrant to advise other operators of the vehicle of all rules and regulations.
- C. All traffic and parking regulations will be in effect and enforced 24 hours a day, 7 days a week.
- D. Vehicles with an accumulation of five(5) violations which have not been previously adjudicated through the Safety Department or the Student Court will be immobilized. The immobilizer will not be removed until proper authorization has been obtained.
- E. Vehicles may be immobilized due to extenuating circumstances as determined by the Director of Safety.
- F. ERAU Safety Officers may be required to give verbal citations or directions which may be contradictory to written regulations. These verbal instructions or directions are to be followed by all concerned.
- G. State, County and City Law Enforcement Officers patrol the entrance and exit to the Daytona Beach Campus. Illegal entry and exit to the Campus may result in citations issued by these officials.
- H. Lack of familiarity with parking and traffic rules and regulations does not constitute a defense for failure to comply with any of the rules and regulations.
- I. Emergencies and special circumstances will be dealt with appropriately by the Dean of Students Office.

## VI. VIOLATIONS AND FINES

- A. For each parking and traffic violation a fine and assessment of penalty points will be charged as outlined below:
  - V.IOLATION-Improper parking: overtime parking; parking on a sidewalk or on the grass; unauthorized parking in a faculty/staff or student space; unauthorized parking in a ride share space; parking in a no-parking zone; no ERAU vehicle registration decal. POINTS-1; FINE-\$10.00.
  - V.IOLATION-Improper license: invalid license plate; failure to wear seat belt; operating a motorcycle/moped without a helmet; removal of, or trespassing beyond a safety/traffic control barrier. 10POINTS-2; FINE-\$15.00.
  - V.IOLATION-Driving the wrong way in a one-way lane; failure to stop at a stop sign; exceeding the speed limit; failure to follow the instructions/directions of a Safety Officer. POINTS-3; FINE \$20.00.
  - V.IOLATION-Unauthorized parking in a handicapped space; parking in a fire lane; reckless driving. POINTS-4; FINE-\$40.10.
  - B. The attachment of a vehicle immobilizer is a four(4) pt penalty and incurs an additional \$20.00 fine.
  - C. A cumulative record of all traffic and parking violations an individual accrues will be maintained in the Safety Department.
    1. If an individual accumulates four(4) violations or six(6) points in one academic year, a mandatory Student Court appearance will be scheduled.
    2. If an individual accumulates six(6) violations or ten(10) points while at ERAU, he/she must appear before the Student Court.
    - D. If an individual does not respond to a summons to appear before the Student Court, or does not appear for a scheduled Student Court meeting, a \$25.00 convenience of court fee may be assessed in addition to any other appropriate fine/penalty.
    - E. Repeated noncompliance of traffic and parking rules and regulations will result in disciplinary action from the Student Court and/or the Dean of Students Office.
    - F. Parking and traffic fines must be paid prior to the release of student records, diplomas and certificates. Any student with outstanding fines will not be allowed to register for, or activate schedules for any succeeding semester or term.
    - G. Parking and traffic fines collected are applied to a student's scholarship account. Applications for scholarships are available submitted in the Financial Aid Office.

## VII. APPEAL

- A. To contest a traffic or parking violation the registrant must appear before the Director of Safety within four(4) ERAU business days from the date the citation was issued. If the Director of Safety rules against the individual, a written request for an appeal hearing may be directed to the Student Court within two(2) ERAU business days.
  - B. A request for an appeal hearing before the Student Court will be reviewed at the next regular meeting after receipt of the request. After the Court has reviewed the request, the petitioner will be notified of the Court's decision concerning the request for appeal within five(5) ERAU business days.
  - C. If a petitioner's request for an appeal is denied, the decision of the Director of Safety is final and binding.
  - D. If a petitioner's request for an appeal is granted, the petitioner will be notified when he/she must appear before the Student Court.
  - E. If the Student Court hears an appeal concerning a traffic or parking violation and rules against the petitioner, a final written appeal request may be submitted to the Coordinator of Judicial Affairs within one(1) ERAU business days.
  - F. The decision of the Coordinator of Judicial Affairs will be final and binding.

## VIII. GENERAL

- A. Embury-Riddick Aeronautical University assumes no liability for damage to or theft of any vehicle or its contents, for any article of personal property or for injury or death of persons in vehicle accidents while on University property.
- B. No person shall sleep or remain overnight in any vehicle on University property.
- C. Vehicles of any kind containing merchandise or food offered for sale on University property are strictly prohibited without prior written permission from the Director of Safety.
- D. Vehicle Maintenance and Repair:
  1. Vehicle repairs is authorized ONLY in approved areas.
  2. Litter and debris from maintenance must be properly disposed of in appropriate waste containers.
  3. Vehicles, or any parts thereof, may NOT be taken into any University building for storage, cleaning or maintenance.
- F. Students who are graduating and leaving the University may receive a partial refund of parking registration fees by presenting evidence of graduation to the Safety Department.
- G. The Student Court is a branch of the Student Government Association. Its primary function of the Court is to hear cases involving parking and traffic violations.
- H. Final interpretation of all PARKING AND TRAFFIC RULES AND REGULATIONS will be made by the Coordinator of Judicial Affairs.

## DECEMBER GRADUATES

The first meeting for all December Graduates will be held in the U.C. at 8 p.m. on Wednesday, Sep. 30, 1987. Important Graduation information will be reviewed. Elections for Sr. Class President and Vice President will be held. Since there is no rehearsal for Graduation, it is very important you attend. If you are unable to attend please contact the Student Activities office.

Friday, Oct. 9, 1987 is the deadline for December 1987 graduation application. Please be advised that NO DIPLOMA will be ordered if this application is not processed. Contact the Registrar's Office for prospective graduates are required to make formal application for degree completion as a complete Alumni form.

## SPRING GRADUATES

STUDENTS ANTICIPATING SPRING '88 GRADUATION: We suggest that you fill out your graduation application as soon as possible in order to get a "Preliminary Graduation Evaluation". This will help make your graduation a smooth one.

## GRADUATING SENIORS CEREMONY

In accordance with University policy as stated in the Graduation Catalog, effective immediately all students will be required to have successfully completed all of the required courses and financial obligations before they will be allowed to participate in graduation ceremonies. This includes all degree required flight courses. A student's last flight course must be completed prior to the date and time that senior grades are due in the Office of Registration and Records in order for that student to participate in that graduation ceremony. Students completing any required courses (flight or academic) after that time will be eligible to participate in the next graduation ceremony. Those students completing any specified deadline will follow the schedule below for ceremony participation:

TERM OF LATE COMPLETION	TERM OF CEREMONY ATTENDANCE
Spring	Summer
Summer	Fall
Fall	Spring

## CO-OP WORKSHOPS

You must sign-up for all workshops in the career center.

- FSL-Pacuity/Staff Lounge, second floor UC
- CPR - Common Purpose Room, first floor UC

## JOB SEARCH WORKSHOP

September 30 - Wednesday 3:00 - 4:00 P.M.

## INTERVIEWING WORKSHOP

October 2 - Friday 4:00 - 5:00 P.M.

## PROFESSIONALISM WORKSHOP

October 13 - Tuesday 3:30 - 4:30 P.M.

## ORTHOKEATOLOGY SEMINAR

Dr. Leonard H. Indanter will speak in the U.C. on Oct. 8 at 8:30 on "Vision Improvement through Orthokeratology."

## BOOKSTORE CLOSING

The University Bookstore will close at 4:00pm October 19, 1987 to replace the carpet on the lower level and reopen October 19, 1987 at 8:30 am. Please plan to buy and/or transact your business prior to the dates in question. The University Bookstore will not be able to transact business on the closed dates.

## CLUBS AND ORGANIZATIONS

Advertisement cards are now available at the Incom Center in the U.C. for notices to be placed in the approved bulletin boards on campus. All Club & Organization notices and off campus events will still be approved at the Student Activities Office.

## INTERNATIONAL DAY

This year's "International Day" will be held on Saturday, Oct. 24 at 1 p.m. in the U.C. To make this year's event as successful as last year's, and even better, we need your help. We are looking for international students who would be willing to become part of our entertainment for the day. If you, or any of your friends from other schools or the community, can sing, play a musical instrument or perform in any way, we would be very happy to hear from you. Please call Davis in the Dean of Students Office, ext. 6326 or Mary in the Chancellor's Office, ext. 6620 and join in the fun and excitement. This is a special day for all our international students. Show off your talent and your heritage. Get involved and have some fun!

the Health Center for a Medical Permit to park in handicapped spaces.  
Temporary vehicle permits are available in the Safety Department.  
All traffic and parking regulations apply to holders of temporary permits as well as to other visitors and vendors on University property.  
RIDE SHARE - See Section IV regarding Ride Share Regulations.

## II. GENERAL TRAFFIC REGULATIONS

- A. Speed limit - The speed limit on campus is 10 mph and will be enforced at all times.
- B. All vehicles, including cars, trucks, vans, motorcycles, mopeds, bicycles and skateboards, must yield the right-of-way to pedestrians.
- C. Motorcycles and mopeds are strictly prohibited on any campus sidewalk, unpaved pathway, field, lawn or landscaped area.
- D. Bicycling and skateboarding are prohibited within 50 feet of all University facilities. Due care must be taken to ensure the safety of others while bicycling and skateboarding at all other outdoor locations on University property, and at all University sponsored or supervised activities.
- E. All vehicles must travel ONLY in the direction indicated by traffic signs or markings on the roadways.
- F. Vehicle operators and passengers must wear seat belts when the vehicle is in motion.
- G. Motorcycle/moped operators and passengers must wear helmets when the vehicle is in motion.
- H. When required, safety and traffic control barricades may be erected and removed as needed to direct pedestrian and vehicle traffic. Do NOT attempt to move or bypass these barricades.

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CPR - Common Purpose Room, first floor UC

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September 30 - Wednesday 3:00 - 4:00 F/SL  
October 6 - Tuesday 10:30 - 11:00 F/SL

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This is a special day for all our international students. Show off your talent and your heritage. Get involved and have some fun!

# Computer maps assist in flight

By Donna Bolinger-Miles  
American Forces Info Service

Picture this: Military forces preparing for a mission punch up a set of coordinates on a computer screen and get a three-dimensional look at their target.

Aviators adjust the screen to compare angles and directions of approach, then "practice" the flight plans they'll use. Ground troops study the terrain they'll need to cross. Adjusting the computer image to ground level, they "maneuver" along river beds or city streets, noting the landmarks and obstructions they'll encounter.

Sound like science fiction? This is the state of military mapmaking in the computer age.

For those unfamiliar with the work of Defense Mapping Agency, the name conjures up images of paper charts and field maps. And in fact, every year the agency produces about 55 million copies of military maps and charts — about 3,000 of them new or revised.

The Defense Mapping Agency has an inventory of more than 70,000

mapping products. Many are of the same areas, but adapted to the needs of different users.

Ground troops measure hills in meters; their maps provide detailed information about terrain, roads and bridges and are usually made of extra-strong material that holds up under field conditions. Air-support elements have different mapping needs. Their charts measure elevation in feet and are often printed with a special ink that's visible at night under red cockpit lights.

Naval vessels, on the other hand, are much more concerned about the ocean floors than the Earth's surface. They rely on accurate nautical charts for safe navigation, for strategic submarine operations and in anti-submarine warfare.

In addition to traditional forms of mapmaking, the Defense Mapping Agency has taken broad strides into the world of computerized, or digital, mapmaking, according to Del Malkie, an agency spokesman.

Malkie said digital mapping is used in aircraft and marine simulators, in weapons targeting and in a wide range of military operations.

"Smart" weapons systems is digital targeting information produced by the Defense Mapping Agency.

Computerized maps are programmed on cassette tapes not unlike those sold in record stores. The cassettes are stored in small metal boxes with grooved sides and notches that enable them to be plugged into modern cruise and ballistic missiles.

During an attack, the programs encoded on these cassette tapes would steer the missiles to their targets. By taking radar readings along the route and comparing them with their on-board computer maps, the missiles would correct the headings.

But digital mapping has immediate, everyday applications in military operations. Digital data is used by E-3A AWACS, B-52, A-10 and other aircraft, aboard battleships, aircraft carriers and nuclear-powered submarines and for troop and tank navigation and battlefield intelligence.

When translated into digital codes, maps become faster and less expensive to update and easier to get into the hands of the commanders

who need them, Malkie explained.

Manual revisions that once took about 50 hours can be completed with computer assistance in as little as 20 minutes. It eventually will be possible for up-to-date maps to be transmitted by satellite to military planners anywhere in the world.

To keep ahead of rapidly developing and ever-more-sophisticated weapons systems, the Defense Mapping Agency has set out on a massive \$3.5 billion modernization program. Its goal is to digitize the world's literally by the year 2000, Malkie said the agency already digitizes some 5 million square nautical miles of earth every year.

Computerized mapping will give military elements an accurate assessment of the conditions they'll encounter before they deploy.

They'll know the weight restrictions of bridges they need to cross, the amount of cover provided by foliage in the operational area and whether the ground is sandy, rocky or muddy and what equipment can best maneuver through it. They'll know the safest approaches to landing zones and have access to aerial charts that direct them through fog and snowstorms.



Blown away...

Airson photo by Tammy S. Van Winkle


Here lies Dorm 1's commode, which was apparently blown up by a magnesium pipe bomb placed in the facilities.



Push...

The Prescott Pusher will be overviewed in-depth, in next week's Avion. This particular aircraft, which was flown to

Oakhosh's airshow, is the Prototype II. It incorporates all previous design modifications from the first aircraft.



**Please save Florida's Manatees**

**Push...**  
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Oakhosh's airshow, is the Prototype II. It incorporates all previous design modifications from the first aircraft.

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