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C & O Day
from 9 a.m. to
4 p.m. today

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Week
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Life of Civil Rights leader outlined page 3
- Space Technology
Haley Armada set for rendezvous page 9

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AVION

An award winning collegiate newspaper

Volume 52, Issue 2

Embry-Riddle Aeronautical University, Daytona Beach, Florida

January 22, 1986

60 YEARS OF AVIATION EXCELLENCE

ERAU makes proposal for new FAA Airway Science facilities

By Bill Fisher
Avion Staff Reporter

If the Federal Aviation Administration (FAA) responds favorably to Embry-Riddle's proposal for the Airway Science Demonstration Grant, then the university may very well be the foremost institution in the area of Airway Science. The FAA would sponsor matching funds for the grant, which would consist of \$1 million from the FAA and \$1 million from ERAU through private donors, will be used to construct and equip an Airway Science simulation laboratory.

This laboratory will have the capability of creating a real life airspace environment for the purpose of providing students with an understanding of National

Airspace Systems Operations.

According to the university's submitted proposal, there are five objectives of the laboratory. They will:

1) Provide students with a comprehensive understanding of the information/communication system and the data flow within the National Airspace System.

2) Increase student (especially minority) enrollments in the Airway Science Program.

3) Improve the quality of ERAU aviation-oriented graduates by integrating experimental "Judgement-behavior" and "Team-behavior" learning experiences into the curriculum.

4) Contribute to the understanding and upgrading of the Airway Science Program, especially

at institutions which lack extensive specialized aviation resources.

5) Provide a resource for intra-AWS/system information/communications human factors research.

The proposal goes on to describe how it will meet the objectives. It basically states that it will provide simulation facilities for various aspects of the Airway Science field. In addition, it will offer a consortium/dual degree with Bethune-Cookman College, encouraging Bethune-Cookman students to enroll in Airway Science.

The proposal also mentions various facilities and communications systems to be included in meeting requirements.



The McDonald's McBlimp made a low pass Embry-Riddle campus Wednesday enroute to over Daytona Beach Regional Airport and the Gainesville, Florida last Wednesday.

In-flight smoking aboard Riddle Aircraft produces controversy

By Richard S. Calvert

McDuffee offered, "I smoking issue was discussed at length during a recent staff meeting, where response was evenly matched. Asked about previous input, he replied, "It hasn't really been an issue among the flight instructors, nor have I ever been approached by students about smoking in the airplane."

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Campus C & O Day offers full schedule of activities

By Richard S. Calvert

Smoking has become an issue of controversy across the country. Non-smokers feel that smokers are infringing on their right to breathe clean air, and smokers generally claim that any bans are acts against their freedom of choice. In the "Opinions" section of the Avion last week, the issue was brought to the attention of university officials; especially affected was the flight department.

Mr. Paul McDuffee, chairman of Flight Technology, stated that smoking in public places has become an issue in recent times, due to Florida Law and public opinion. He even said that the university had, on the administrative level, discussed the establishment of non-smoking areas for employees.

When questions on possible safety hazards to smokers in Riddle planes, McDuffee offered, "I won't disagree that there are probably stronger arguments for not having smoking in the airplane as opposed to allowing it, but it is an emotional issue—that's pretty clear."

According to the chairman, the

Holiday mishaps take Riddle lives

By Steve Cagle

Two Embry-Riddle students lost their lives in highway accidents during the New Year's holiday. Kremenki, an Aeronautical Engineering major, was killed while vacationing in Canada when he was hit while walking along a road with a friend on New Year's day.

See SMOKE, page 17



The Navy displayed an S-3 Viking last Wednesday at the Riddle Maintenance area. The jet remained overnight before returning to its home base in Jacksonville, Fla.

Airphoto by Mark Stern-Montgomery

Campus C & O Day offers full schedule of activities

By Richard S. Calvert

Clubs and Organizations day will commence this morning at 9:00 a.m. and continue until 4:00 p.m. this afternoon. The event will feature a demonstrative jump by the Riddle Skydiving Club between the hours of one and two.

In addition, student representatives from fifty-nine of the clubs and organizations on Campus will be present to speak with interested individuals about their particular group. Asked if other outside groups would be involved, Laurie Ranfus, student activities coordinator, commented, "This is a day strictly for clubs and organizations."

Also, Ranfus noted, "Some clubs have membership cap already, or have special requirements that not just anybody can join, like honorary societies." She continued, "It does let the students know what's available to them in the future if they can't participate right now and gives them a little incentive to work towards their goals."

For the day, from student activities began preparing the University Center last night. Club booths are basically arranged in categories, and each will present various aspects of their specific interests.

Over 2500 students are represented by various organizations on campus. Said Ranfus, "It lets the students know what's available to them, and it's not just classrooms here, that there are other activities they can get involved in."

Tonight at 8:30 p.m., the Entertainment Division will sponsor a unique comedy show performed by magician Jeff Justice. The University Center is the scheduled location for the event.

According to Ed Heemskerck, Entertainment Division Chairman, "the show for students will be a free event... not for the university, but for students." Heemskerck later added that students' guests would be welcome at no charge as well.

Heemskerck added that Justice's promoters, DCA of New York, have provided special video presentations to be shown earlier. The total show is tentatively scheduled to last for approximately one and one half hours, but can last longer if the students enjoy it.

Sponsoring the program, Entertainment will have a crew of approximately 20 people setting up and operating the facility. The division learned of Justice at a recent convention in Washington.

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ding smoking in the airplane as opposed to allowing it, but it is an emotional issue—that's pretty clear."

He went on to point out that manufacturers have placed ashtrays in aircraft for years, and that certainly they would make safety considerations. He added, "In fact, there are airplanes out there on the line that the ashtrays have never even been cracked."

Many people feel that pilots smoking on solo flights present a particular hazard to themselves and the plane they are in. This would mainly be due to dropped ashes and the possibility of hypoxia. On allowing solo smokers to fly, McDuffee said that if a person on a solo flight understands the risk involved, then "so be it."

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evenly matched. Asked about previous input, he replied, "It hasn't really been an issue among the flight instructors, nor have I ever been approached by students about smoking in the airplane."

As to insurance liabilities, should an accident occur, McDuffee pointed that it would rest with the lawyers. "(The insurance policy) is going to provide some protection monetarily for damages that occur to aircraft or the occupants up to a point, unless we're obviously negligible."

Cigarette smoke can affect aircraft avionics over a period of time. Aside from the cosmetic problems with the aircraft's interior, McDuffee could not cite any real damage resulting from

See SMOKE, page 17



Miss Universae, Deborah Carthy-Dou, and Miss USA, Laura Martinez Herring, made a visit to ERAU late last week.

Airphoto by Philo Martin

Holiday mishaps take Riddle lives

By Steve Cagle

Two Embry-Riddle students lost their lives in highway accidents over the holiday vacation period. Don Topolinski and Larry Krzeminski died when they were struck by cars in separate accidents.

Don Topolinski, a senior Aeronautical Studies major, was hit by a car while walking home from a party on December 21. Topolinski was from Metamora, Michigan.

Larry Krzeminski, from Livonia, Michigan, was on a ski

vacation in Canada when he was hit while walking along a road with a friend on New Years day. Krzeminski, an Aeronautical Science freshman, died a short time later in the hospital.

Confirmed details of both accidents were unavailable, however, there are unconfirmed reports that the drivers of both vehicles were driving under the influence.

A memorial service for both students was held on Sunday, January 19, in the Common Purpose Room of the University Center at 10:00 A.M.

U.S. Air Force awards major grant for Air Science simulation project

By Steve Cagle

The Air Force Office of Scientific Research and Development has awarded a grant of \$20,000 to Dr. Thomas J. Connelly of the Aeronautical Science Department to develop simulation exercises for pilot decision-making skills.

Dr. Connelly spent ten weeks during the past summer at Williams Air Force Base reviewing the curriculum of the Undergraduate Pilot Training (UPT) Program. The object of his study was to make recommendations to update and modify the

program for use with the new T-46 or modified T-37 airframe.

Part of this review focused on the lack of decision-making training that pilots receive. Connelly explained, "No where in any curriculum did we see a formalized approach to training pilots on how to make good decisions or avoid bad decisions." Consequently, he developed a manual to be used in the UPT program on pilot decision-making skills.

The grant is to be used to carry this research one step further and

See GRANT, page 15

Editorial



This year, the university is celebrating its sixtieth anniversary in the aviation industry. ERAU has seen many sizable and significant alterations since its initial founding as a small flight school in 1926. Time yields change, and for Riddle, change, for the most part, has been synonymous with progress.

As an example, two decades ago, Embry-Riddle operated out of an aging 'hotel' and from former military facilities. To contrast, today the Daytona Beach campus alone (never mind Prescott) is in the multimillion dollar bracket, with a new library, the University Center, and other buildings on the grounds. This comparison alone shows quite an achievement.

But to continue, no longer is the curriculum solely limited to flight and its closely associated programs. The current catalog offers students degrees in Aeronautical Engineering, Aviation Computer Technology, and numerous other areas of concentration. With the expansion in the number and types of courses, the university enrollment has also soared. It seems hard to fathom that just sixty years ago, the total student population of ERAU peaked at less than 100. Approximately 4500 students now attend classes here in Daytona.

Indeed, there is much to be proud of. The current administration has its eyes set to the future in many areas. What we question, however, is *will the university take full advantage of this sixtieth anniversary?* Certainly they have gallant dreams of great guest speakers and good public exposure, but, as the saying goes, the best laid plans of mice and men... Will this event fall short of those expectations due to bureaucratic red tape and procrastination? Let's hope this will not be the case.

One point illustrates possible trouble. A member of the Avion staff was chosen to sit on a committee which is to select appropriate speakers. He has yet to be contacted. What is the delay? Do prominent speakers' schedules revolve around the whims of Embry-Riddle?

Sixty years of excellence is too much to waste on



Letters to the Editor

The King

To the Editor:

Please run the following letter which is dedicated to Robert Sterling and inspired by Dr. Martin Luther King:

All men were born free, No matter where they be. From different race, religion and culture, yet, born with the same physical

structure. In Jamaica, America, Africa, or Taiwan, all share the same aspiration and ambition. Created by the same almighty hand from above, with one heart, one soul, and unconditional love.

All men were born free—most of us in poverty. Born in a hut, palace, igloo, bungalow. Rich or poor, all men were born for love and grandeur, but you have rejected humanity, adopted covetousness and greed, fighting for woman and power while your

brothers are in need.

Why kill, steal, and hinder your brother from success? The flesh of your flesh starve from distress. Oh, You are so wrong, for you starve for love of vanity, and would deny me the right of simplicity. Yes! You have got the wrong interpretation. Mix up your vain imagination.

All men were born free, but we are hinder from what we desire to be. In every nation, there is legislation upholding

discrimination and segregation, but after you have fulfilled your selfish ways and lived out your avicious days, you will slowly wither away.

You will fall like an oak tree and set the captives free, then men will see what he can be. Travel from land to sea, for all men were born free.

Congo Wa Mgana
Box 3607

Government questioned on low-income subsidation

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Sixty years of excellence is too much to waste on poor planning and hesitant action. Should the administration need assistance, they should ask the students, and then use them for the valuable resource that they really are. The sixtieth anniversary will be a recognition of past achievements, but remember, the way it is carried out will serve as an earmark of things to come.

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Government questioned on low-income subsidation

By Jack Anderson and Joseph Spear

WASHINGTON—Should the government force elderly, low-income tenants in subsidized housing projects to buy unwanted meals for their own good?

Landlords and federal investigators say yes. 20 elderly residents of a New York City project say no — and have taken their case to court.

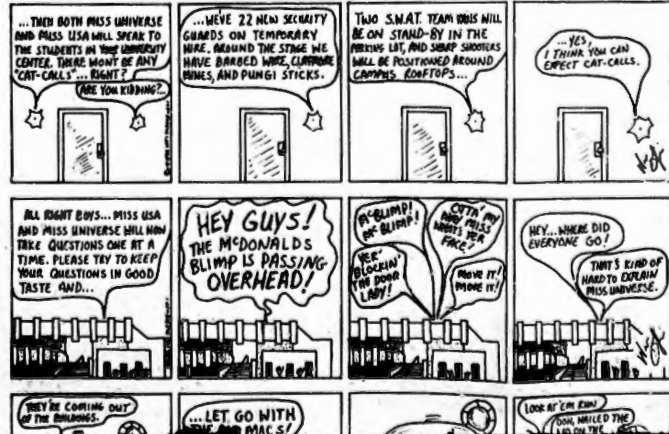
"The meals are terrible," 70-year-old Raudal Smith told our reporter Vic Kolenc. Like

"most of us" at St. Margaret's Peter Merlin, Bill Fisher, Brian Nicklas, Ken Saunders

The landlord, a non-profit corporation founded by Trinity Episcopal Church on Wall Street, responded with eviction notices for some of the protesters. A court order has blocked the evictions temporarily while the tenants press their lawsuit.

Klyde Morris

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Funded by the Students of Embry-Riddle

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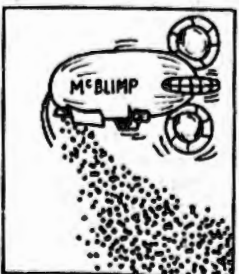
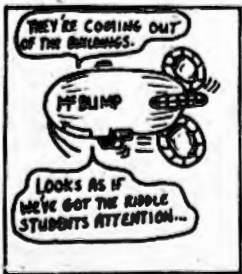
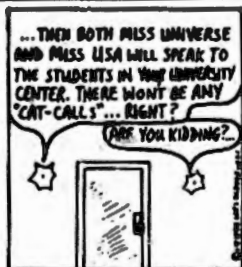
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The landlord, a non-profit corporation founded by Trinity Episcopal Church on Wall Street, responded with eviction notices for some of the protesters. A court order has blocked the evictions temporarily while the tenants press their lawsuit.

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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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AP Associated Press

"Do you think ... Embry-Riddle should sponsor varsity sports for its students?"



Buck Wyndham—
"Yes, I do. There's a lot lacking around here in culture and sports. I think that would add very much to the college experience for a lot of people... We miss out on a lot."

Larry Boninger—
"Not because of money. I know the Riddle system... Here at Riddle it won't be state-sponsored. Who's going to pay for it?"



Todd Phillips—
"I think it would be a start. Embry-Riddle isn't that big, but I think it would be good because it would get more people in this school into athletics and into trying."



Pat Lis—
"Yes, I think it would be an uplift to the school spirit and give more unity to the school. Right now I don't think we have any... Who wants to see intramurals?"



Stanley McKenzie—
"Certainly. All we do is come here to study. After some classes, we could relieve our minds by playing certain activities."



Deenee Proulx—
"Yes, people will get involved... have some spirit."



News Briefs

High tech jobs on the downswing

Associated Press

LOS ANGELES (AP) — A high technology career has lost its widespread appeal on college campuses, but teaching has regained some of its attraction among college freshmen, according to a study released today.

The study also revealed students are slowly turning to careers in education as a nationwide baby boomlet creates a teacher shortage — an about face from a decade ago when there were more teachers than jobs.

Most freshmen still consider themselves middle-of-the-road politically and have liberal views on such issues as disarmament, military spending, taxes, pollution and abortion, the report said.

The 164-page study was compiled by the Cooperative Institutional Research Program and was sponsored by the American Council on Education and the University of California at Los Angeles graduate school of education.

The study was based on surveys from 192,453 students, or a little over 1 percent of the fall 1985 freshman class of 1.66 million at 365 colleges and universities.

The sharp drop of interest in computer and engineering disciplines surprised study leaders.

Only 4.4 percent of the freshmen indicated they intend to pursue careers as computer programmers or analysts, down from 6.1 percent in 1984 and a high of 8.8 percent in 1982.

In engineering, the drop was less severe, declining to 10 percent in 1985 from 10.4 percent in the previous year and a peak of 12 percent in 1982.

Freshman interest in the biological and physical sciences also dropped slightly, while the humanities and teaching careers gained. Business remained the most popular major at 24.8 percent, up from 24 percent a year ago and 21.3 percent in 1980.

USF official says workers at Financial Aid office in 'Catch 22'

Associated Press

TAMPA, Fla. (AP) — Charlie Reed, chancellor of the State University System, went back to school for a day and said: "It just blew my mind."

It wasn't a classroom situation. It was a workday and he was behind the desk in the financial aid office Monday at the University of South Florida.

"This is one of the biggest paper chases I've ever seen," said Reed who spent the day helping students lined up outside the front window which colleagues have dubbed "the box."

Reed said the workers "are in a Catch 22 situation. If they are busy doing the paperwork, the students at the windows don't get helped."

"And if the workers are helping students at the windows, then the paperwork starts to pile up," he said.

Gwyn Francis, USF acting financial aid director, said she hoped Reed's experience would benefit her office.

"It can't do anything but help," she said.

New Computer analyzes weather

**By Robert Lee Zimmer
Associated Press**

URBANA, Ill. (AP) — The new supercomputer at the University of Illinois could help solve some deadly weather problems, says Robert Wilhelmson, an atmospheric scientist at the school.

"We may be able to improve the forecasting of tornadoes," said Wilhelmson. "It could allow us to simulate down-drafts of air that cause planes to crash."

But Wilhelmson, who also serves as assistant director of the National Center for Supercomputing Applications, knows the supercomputer can go far beyond that task, possibly opening doors on every field of research.

"Scientists will tackle problems they never thought about solving before," Wilhelmson said Wednesday as the center opened.

"Today we start the complex-work process of getting the scientific community onto the system," he said. "We have a supply of dozen requests for time that have been granted."

The heart of the system is the \$11 million Cray P-3M supercomputer. It was delivered to campus last summer and was dismantled and bolted to the floor at the Astronomers Building.

"It was pretty straightforward to get it hooked up and running," said Wilhelmson. "The computer now has been tested by a lot of users."

Its main element is a red, C-shaped unit about 6 feet tall. It contains 393,000 computer chips and can operate about 10,000 times faster than an ordinary personal computer.

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Brothers of the Wind commemorate King

**By Paul Wright
B.O.W. Correspondent**

Three hundred and sixty-six years after 20 Blacks landed at Jamestown, 122 years after the signing of the Emancipation Proclamation, and 31 years after the Supreme Court banned segregation, the United States of America — North and South, Black, Brown and White — will stop for 24 hours to honor the memory and the light of a Black American.

Because he lived and dreamed and died, many factories, offices, and schools and all federal and many state agencies will close.

ed. All over America, men, women and children will link hands and hopes in an unprecedented national holiday for Martin Luther King, Jr., a grandson of a former slave who rose to spiritual heights attained by few mortals and thereby fulfilled the Biblical adage which says that he who is last shall be first.

This astonishing recognition of Black initiative and leadership would have been inconceivable a few years ago, and it marks a great divide in the relationship between Black and White America.

For on King Day, Americans

of all races, backgrounds and political persuasions, segregationists as well as integrationists, will take official notice not only to Martin Luther King, Jr. but also of the maids, the sharecroppers, the students and the Rosa Parks who made him what he was.

This is the tradition and the hope that the Martin Luther King, Jr. holiday brings to the Republic. And that tradition speaks in and through the King holiday telling us that a people who could produce a King has no need for fears or apologies or doubts.

And all Americans are indebted to King and the non-

honored, Martin Luther King, Jr. joins the most exclusive of all American clubs. Ironically, and significantly, the only other American honored by a national holiday is George Washington.

There is irony — and truth — in this. For King and his non-violent army gave America a new birth of freedom. They banished the Jim Crow signs, banished American politics, and transformed the student movement, the women's movement and the church.

See KING, page 6

253-1771

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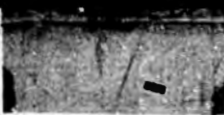
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come here to study. After some classes, we could relieve our minds by playing certain activities."



Deneen Proulx—
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See KING, page 6

Read's claim she would benefit her office.
"It can't do anything but help," she said.

New Computer analyzes weather

By Robert Lee Zimmer
Associated Press

URBANA, Ill. (AP) — The new supercomputer at the University of Illinois could help solve some deadly weather problems, says Robert Wilhelmson, an atmospheric scientist at the school.

"We may be able to improve the forecasting of tornadoes," said Wilhelmson. "It could allow us to simulate downward bursts of air that cause planes to crash."

But Wilhelmson, who also serves as assistant director of the National Center for Supercomputing Applications, knows the supercomputer can go far beyond that task, possibly opening doors in every field of research.

"Scientists will tackle problems they never thought about solving before," Wilhelmson said Wednesday as the center opened.

"Today we start the couple-of-week process of getting the scientific community onto the system," he said. "We have a couple of dozen requests for time that have been granted."

The heart of the system is the \$11 million Cray P-MP supercomputer. It was delivered to campus last summer and was assembled and bolted to the floor at the Astronomy Building.

"It was pretty straight forward to get it hooked up and running," said Wilhelmson. "The computer now has been tested by a set of users."

Its main element is a red, C-shaped unit about 6 feet tall. It contains 393,000 computer chips and can operate about 10,000 times faster than an ordinary personal computer.



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Sigma Chi

By S. Anthony Quinn
Sigma Chi Chapter Editor

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First and foremost, the brothers are proud to announce that seven worthy pledges from the Fall 1985 pledge class have been initiated into the life-long bonds of brotherhood in Sigma Chi.

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Bill Krebs; Secretary — Tom Faulstich; and Treasurer — Tim Hyland. Make the white cross guide them to bring the chapter up to new heights.

With Rush rapidly approaching, the brothers are striving in preparation for a successful Rush. With the new concept of a dry Rush (no alcohol served) this spring, the chapter is faced with a new approach to the whole rush program.

They feel, however, that this Rush will be just as, if not more so, successful as in the past. The schedule is packed with excitement. The first Sigma Chi Rush Event will be open house on Wednesday, January 22 from 8:00 p.m. — 12:00 midnight. All ERAU students are cordially invited to attend. The brothers are more than anxious to meet and talk with you.

On Wednesday, January 29, from 8:00 p.m. — 1:00 a.m., the first wet (alcohol served and I.D. required) rush function will take place. It will be the "over the hump" party and the excitement

will run high. Rush chairman Dan Ward, will be more than willing to provide information to you on any of the rush functions. Call him at 756-0362 or call any brother at 252-2277. They will be happy to provide you a ride if so needed. The fraternity house is at 530 South Ridgewood Avenue.

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We look for highly motivated young men who will pledge themselves to academic and scholastic excellence, campus leadership roles, athletic achievement, and, of course, partying. What separates Delta Chi from the other fraternal organizations at Embury-Riddle is commitment to our responsibilities. We find one can enjoy himself to a greater extent at social events, once his obligations

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But don't get the idea that we're just brains! One look at the display case, located across from the bookstore, will illustrate our point. It contains the Interfraternity Council's Green Week Trophy, which currently belongs to Delta Chi. Thanks again to our Athletic Chairman, John Sinisi.

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We hope to see you during the Spring 1986 Rush Weeks, and encourage you to check out all the fraternities of Embury-Riddle.



Christian Fellowship Club

By Dawn Keith
Christian Fellowship Writer

Welcome back to school! One may not consider such a statement encouraging after a beautiful holiday with family and friends. Nevertheless, let me encourage you that God is good and God loves us.

No matter what we do, and no matter how we live our lives, God loves us because He made us. It says in 1 John 4:9, "In this was manifested the love of God toward us, because that God sent his only begotten Son into the world, that we might live through Him."

Not only does God love us, but

He wants the very best for us no matter who we are, and the very best life we can live is a life given totally to God through Jesus Christ. Jehoshaphat said to the army of Israel before going into battle, "Hear me, O Judah, and ye inhabitants of Jerusalem; Believe in the Lord your God, so shall ye be established; believe his prophets, so shall ye prosper." (2 Chronicles 20:20)

Sometimes we get the impression that we have to be perfect before God will accept us, but the wonderful thing about God is that He wants to help us with our imperfections. In Revelation 3:20 Jesus said, "Behold, I stand at the door, and knock; if any man hear my voice, and open the door, I

will come in to him, and will sup with him, and he will with me." He did not say, "Behold, I stand at the door, and knock; if any man hear my voice, and open the door and sup with him, and he will with me." The decision is our choice, not his. God's choice has already been made before the foundation of the world.

If you have any questions pertaining to God or the Bible, please feel free to submit your question to the Christian Fellowship Box in the Student Activities Office. Also, we wish to extend a big "THANK YOU" to SGA, Student Activities, the cafeteria, and all others who helped to make last semester a success for the CFC club.

Lacrosse Club

By Eric White
Lacrosse Club President

Florida State Tallahassee turns out great. The Lacrosse Club left the school almost on time (I think the message is finally getting through to the few people with punctuality problems).

We headed out to the State school up Route 95, but Kicco as I think we should go a different way; we were on our way to play the Seminoles of Florida State in our second season game. Our first game was against the Gators which ended up in an ERAU victory 24-6. The team pulled into the University four hours later after an uneventful trip except for the jerk who cut in front of us and slammed on the brakes!

The team quickly changed, warmed up and got ready for the face off. John "Captain" Kirk, who does the majority of face offs for us and does a superb job

at it played his usual great game winning most of the face offs and scoring 2 goals and getting 2 assists. John also led the Riddle team in the Gainesville tournament last December and received the M.V.P. award. The Seminoles got the first goal early, but we came back with a quick goal on a well designed fast break. Each team tallied two more goals and the 1st quarter score was 3 all.

Fast breaks led by our talented middles and attack gave us a good lead half way through the second quarter. State came back with two garbage goals that trickled through our goalies legs. At the start of the third period the score was 7-6 them. Pete finally showed up and started the third quarter with one of his under hand patented shots that is always good for a goal.

The scoring trio of "Captain" Kirk to John and the final pass to "Boog" who nicely put it in the

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The Riddle team continued its scoring all through the fourth period and Jim "Boog" Powell put the ball in the upper corner with his amazing behind the back shot! Final score ERAU 17, Florida State Seminoles 8.

Scott Schindler had a great game with 19 saves. The Seminoles bought the leg at the "Pharris", a great little bar in the middle of the campus, which we helped them enjoy. The team stayed the night so we could enjoy the FSU Rush parties. "What a school!" All in all another great weekend of Lacrosse and partying. If we could get Ted and Tad to fix their glasses before our next game, we would have it made.



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Army ROTC

By Cdt CPT Laura L. Skamra
 Army ROTC Correspondent

ARMY ROTC is for WIN-
 NERS!

- Willingness to defend country
- Infantry skills
- Never quit
- Never fall your team
- Endurance
- Rugged attitude
- Spiritual strength

Army ROTC cadets must uphold these seven training principles for successful completion of both basic and advanced camps. Once through with camp, the cadet knows that he can succeed in anything he puts his mind to.

This is what makes an Army ROTC cadet different from other students at Embury-Riddle. Not only will the cadet have a

positive mental attitude that is sometimes lacking in today's society, but he knows he has the chance to join one of the largest institutions in the free world, which employs the largest "air force."

New to the detachment this trimester are three non-commissioned officers (NCOs): MSG (P) Scanlan, an Airborne Ranger, graduated from Seabreez High School here in Daytona Beach.

He views this as purely coincidental because he did not go out of his way to come back to this area. MSG (P) Scanlan completed the Sergeant-major Academy at Ft. Bliss, TX. He was then sent to the R.O.T.C. detachment at the University of North Florida in Jacksonville. MSG (P) Scanlan will be replacing SSGM Davidson in the future. SSG Robert Knox, Jr. came to

E-RAU from the 1117 Infantry, 2d Infantry Division Camp Casey, Korea. He was supply supervisor there and is currently supply NCO at ERAU. SGT Sangha Yi, the Administration NCO comes from the 8th U.S. Army Seoul, Korea.

She worked for chief of staff Major General Ellis as a Korean linguist. In addition to her assignment at Embury-Riddle, SGT Yi wishes to obtain her Ph.D. in education.

Cadets are encouraged to prepare themselves for the upcoming field training exercise on January 25 and 26. Use the F.T.X. to your advantage! Get the most out of the training during the F.T.X. so that land navigation will be an easy 100 points at camp!

Question of the Week: Name the five major land features on a military map. Answer: Hill, valley, riddle, sad-ty, depression.

L5

By Jim Banks
 L5 President

The L5 Aerospace Society will hold its next meeting tonight, Wednesday, at 7 p.m. in a room to be announced. Check the bulletin board in Mr. Brown's office (Class Office 7) for the room assignment. This board will also keep you up to date on other current L5 activities so check it periodically.

Our meeting tonight will feature a big welcome to those of you who are joining us this term for the first time. Since today is Clubs and Organization's Day in the U.C., we hope you come by to see us and get some of your questions answered.

If you're an L5 "veteran" then

Aerospace Society

you know how great a group we have and how much fun is in store for you. Interested members of L5 met last Sunday at John Getty's to plan out the rest of the activities for this term. But since this article was written three days before the meeting I can't reveal any results.

I can tell you about the remaining events already scheduled for this month.

Well, the only event left of major significance at this point is Saturday's launch of Challenger. Lift off is scheduled for 3:43 p.m. and L5 is sponsoring a bus to go down to the public causeway. The bus ride only costs a dollar and, at this writing, there is still seats available.

To get your seat, drop a coin

with your name, box number and one dollar addressed to John Getty and put it in the L5 box in Student Activities. Space is limited and available on a first-come, first-served basis. Anyone who gets a ticket — you do not have to be a member.

The bus will leave at 11:45 a.m. and will return about two hours after lift off. This is one of two opportunities to see a Shuttle launch this term so don't miss out.

Don't forget about our weekly meeting tonight. Join us and we'll go over the rest of the term's events, as well as review what Shuttle missions have already occurred. See you at 7 p.m.

ΣΤΔ

Sigma Tau Delta

By Chris White
 Sigma Tau Delta Scribe

The Embury-Riddle chapter of the English honor society, Sigma Tau Delta, recently changed its membership requirements. Now anyone with a 3.0 gpa in his/her communication courses at ERAU may become a member.

You might be wondering: What does Sigma Tau Delta have to offer me? The answer is Sigma Tau Delta has something for you in several different ways. On the purely practical level, being a member is hard evidence that you have achieved a measure of excellence in language proficiency. Noting your membership on your

resume, for instance, makes for a nice counterpoint to the majority of technical courses you probably have.

But Sigma Tau Delta also offers fun learning situations. For instance, at our last meeting Professor Bob King told us about the year he spent as an exchange professor in Communist Romania.

At our next meeting, Dr. John Wheeler is going to talk about his summer experience among the Masai in Africa. Also, Sigma Tau Delta sponsors a film series among other activities.

So what do you need to join? As noted above, you must have and maintain a 3.0 gpa in your

communications courses. Also, you must agree to attend half the chapter meetings and share the responsibilities of keeping the organization going. Need I add that there is also a small one-time membership fee.

How do you join? Just come to our next meeting, tentatively scheduled for Thursday, January 30th at 7:30 in B 518. There will be an announcement in the *Avalon* the week of the meeting. Refreshments will be on us.

Even if you don't currently meet Sigma Tau Delta membership requirements, come hear Dr. Wheeler anyway. Sigma Tau Delta meetings are open to the general public.

FPWA

By Elizabeth Dobbe
 FPWA President

Hello and welcome back to another semester! FPWA has many plans for this tri. They start with a meeting on Wednesday, January 22 at 7:30 p.m. in room number .

At this meeting we will discuss elections and our plans for writing at the Daytona 500 and the Goody's 300 in February, and the motorcycle races in March. We also have some plans for a couple of fun fund-raising car washes throughout the semester.

We hope to see you at our next meeting to come on out and have some fun with us!

KING

(continued from page 3)

vient liberators who broke into American history like beneficent burglars, bringing with them the gift of vision, passion, and truth. It can be argued, in fact, that King freed more White people than Black people.

This, then, is a rational holiday with national implications. And we are called, in and through the holiday, to the na-

tional task of continuing the struggle for the fulfillment of King's dream.

The crucial point here and elsewhere is that this is not a holiday for rest and frivolity and play. This is a day for study, struggle and preparation for the victory to come. It is a day set aside for measuring ourselves and American against the terrible yardstick of King's hope.

ATTENTION

A representative of College Credit Card Corporation will be offering Juniors and Seniors the opportunity to apply for Mastercard, Visa, Sears, Amoco and Zales credit cards.

All interested students should stop by the company's table in the University Center between 8 a.m. and 4 p.m. on Monday, Tuesday and Thursday, January 27, 28 and 29.

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Seascope
 Wednesday, January 22, 1986

Wednesday, January 22, 1986
 Special Presentation
 "Overview on the cruise"
 (Take a chance to win a free trip)
 CPR from 1:30 to 2:30
 Presented by Mr. Rick Mikszan

Everyone is invited!

Saturday, February 15, 1986
 Leave ERAU 7:30 a.m.
 Return around midnight.
 3 generous meals
 fun and games
 dance bands
 casino games
 musical show revues
 prizes and surprises

Students \$44
 Non-Students \$57 All Incl.

SKYDIVING CLUB

Wednesday, January 22
 Demonstration Jump at 2:30 p.m. on softball field

Thursday, January 23
 7:00 p.m. in Riddle Theatre
 Information meeting for anyone interested in joining

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APPLICATIONS AVAILABLE
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 FOR FALL '86

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 ADVISOR**

POSITIONS

Applications may be picked up in the Housing Office (Residence Hall 2, Room 278). Deadline for applying is January 31.

Requirements:
 1. 2.5 minimum cumulative GPA.
 2. Two trimesters coursework at ERAU.
 3. Two trimesters residence in university housing.

SORRENTOS

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 TUESDAY: PIZZA 50¢ OFF
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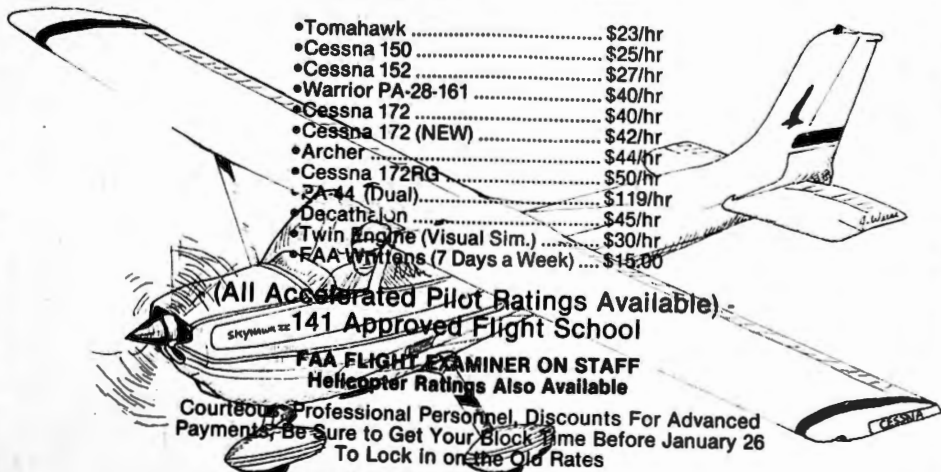
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- PA-44 (Dual)\$119/hr
- Decathlon\$45/hr
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- FAA Writtens (7 Days a Week)\$15.00

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- Cessna 152\$30/hr
- Warrior PA-28-161\$42/hr
- Cessna 172\$42/hr
- Cessna 172 (NEW)\$44/hr

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- Commercial Feb. 15 & 16
- ATP (121) Feb. 22 & 23

★ Writtens Included ★

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- Decathlon\$45/hr
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- FAA Writtens (7 Days a Week)\$15.00

- Private Feb. 1 & 2
- Commercial Feb. 15 & 16
- ATP (121) Feb. 22 & 23

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FLICKS

IRON EAGLE

Starring
Jason Gedrick Louis Gossett, Jr. Tim Thomerson
Released by Tri Star Pictures

Iron Eagle
Tri Star Pictures

Our Rating: 

By Jeff Gutzwiller
Avion Staff Reporter

"Son of Rambo Flies a Jet" might be a more appropriate title for *Iron Eagle*, a somewhat entertaining aviation film that premiered this past Friday at the Daytona Six Theaters. The film, released by Tri Star Pictures, offers a lot of visually dynamic flight scenes sandwiched between a campy and contrived screenplay so typical of Hollywood.

Iron Eagle tells a story of 16-year-old Doug Masters (played by little-known Jason Gedrick) who has just learned that his father, an Air Force F-16 pilot, has been shot down and taken prisoner by an unmentioned Middle Eastern country. The State Department can't free him and the Air Force says its hands are tied.

So Doug is going to do what they won't. He's going to "borrow" an F-16, and with the reluctant help of Air Force Reserve Colonel Chappy Sinclair (played by veteran actor Louis Gossett Jr. of *Officer and a Gentleman* fame), Doug plans to fly in and rescue Daddy.

But how does Doug know how to fly an F-16, you may ask. Well, along with being an accomplished Cessna pilot, the teenager has sneaked many hours in an F-16 simulator, along with a few hours of actual time with his father. However, Doug can only fly well while listening to his "walkman" radio, thus allowing the film to include several Top 40 rock hits in its soundtrack. (The list of musical artists include



Photo by Tri Star Pictures

Newcomer Jason Gedrick (left) and Louis Gossett, Jr. team up to fly a rescue mission in *Iron Eagle*. This is Gossett's first military role since his award-winning portrayal of Sgt. Foley in *Officer and a Gentleman*.

Queen, Jon Butcher Axis, Ronnie James Dio, Twisted Sister, and even Katrina and the Waves.) Aside from the usual bogus chain of events that permeate *Iron Eagle*, the film does offer some brilliant stunt flying and dogfight scenes. The producers were able to procure actual F-16

Falcons, and with the help of accomplished aerial director Jim Gavin (who skillfully choreographed the air scenes in the film *Blue Thunder*) many exhilarating in-flight camera shots were created.

Also, the late Art Scholl (who died a few months ago while film-

ing another aviation film, *Top Gun* which will be released May 23) was on hand for an organic stunt sequence involving Doug Masters racing an evil motorcyclist through a canyon in a Cessna 152 Aerobat.

There are numerous technical errors in some of the flight scenes, however, and any Embury-Riddle student is sure to scoff at these. Here are some examples: F-16s are shown on the flight line fully loaded with bombs and missiles, which suddenly vanish

entirely, and last and certainly less on the quality scale, *Purple Hearts*. Some of Furie's films have some merit to them, but *Iron Eagle* pretty much reflects his pay for the course.

The acting and character development in this film is also nothing to brag about. The cast consists of little-known talent, except of course for Louis Gossett, Jr., who is best known for his academy award-winning performance as a tough-as-nails drill instructor in *Officer and a*

Gentleman; but Gossett falls short of an equal performance in *Iron Eagle*...he is merely another victim to an substandard script.

The relationship between Doug and his father (Tim Thomerson) are never developed well enough for the audience, and Doug's mother (Caroline Langerfeld) and girlfriend (Melora Hardin) seem to be thrown in as token females.

All in all, though, this reviewer feels that *Iron Eagle* is worth seeing once if you're into a lot of flight scenes and not an intelligent, believable screenplay. Just remember that the film reflects the recent trend of shallow, patriotic, act-n-packed, blow-up-the-bad-guy flicks that have infiltrated today's movie market. I give it a three out of a possible five...and that's being generous.

Iron Eagle is currently showing at the Daytona Six Theaters in the Daytona Mall. Tickets for this showing were courtesy of the Daytona Six.

How we rate them...



Excellent...see it twice!

Very good...worth going to

So so...a few redeeming qualities

Below average...don't go out of your way

Truly rotten...a waste of perfectly good film

when they take off, then reappear in flight; the jets always have plenty of armament even after they fire numerous bombs and missiles; a control tower, seemingly built out of dynamite, is blown up twice in the film; Israel-built Kfir's are recognized as MIG-23's, when in actuality they bear no resemblance at all; and the same cheap plastic airplane model explosion scene is shown over and over again.

For those of you who want to know who to praise (or blame in this case) for the direction of this film, Sidney J. Furie is the man to talk to. He's the director and co-writer of *Iron Eagle*, and his track record in the past include films like *Lady Sing the Blues*, *The Boys in Company C*, *The*



In a scene from *Iron Eagle* Doug Masters (played by Jason Gedrick) tries to convince Col. Chappy Sinclair (Louis Gossett, Jr.) to help him commandeer a couple of F-16s for a rescue mission.

Photo by Tri Star Pictures

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list of musical artists include were able to procure actual F-16 died a few months ago while film- The Boys in Company C. The rescue mission. Photo by Tri Star Pictures

Walt Disney World
late night

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SATURDAY, FEBRUARY 8 - 11 P.M. - 4 A.M.

Challenger launches Saturday

SPACE TECHNOLOGY

The Avion, January 22, 1986

Int'l. space fleet will encounter Comet Haley

By Pete Martin
Avion Staff Reporter

As Halley's comet returns to the inner solar system on its 30th recorded journey around the Sun, scientists prepare to study the celestial phenomenon with an armada of automated spacecraft. This is the first passage of the comet during the space age, and international space research agencies plan to make the most of it.

The Soviet Union launched two identical VEGA spacecraft on December 15 and 21, 1984. Their trajectories allowed for flybys of the planet Venus on June 11 and 15, 1985, during which each spacecraft successfully released a lander and an atmospheric balloon to explore the planet.

VEGA 1 will encounter Halley's Comet on March 6, 1986, and pass through the comet's coma about 6,000 miles from the nucleus.

The nucleus will photograph the composition of the comet. VEGA 2 will encounter the comet on an Ariane booster July 2, 1985, to be determined by the results of the VEGA 1 encounter.

Chatter in Avion

probes directly to the comet. However, NASA has scheduled several spacecraft to make comet observations in 1986.

The International Sun-Earth Explorer 3 (ISEE-3) spacecraft, which monitored the solar wind from 1978 to 1982, was maneuvered into a new trajectory and redesignated International Cometary Explorer (ICE). It passed within 6,000 miles of Comet Giacobini-Zinner on September 11, 1985, becoming the world's first spacecraft to have an encounter with a comet. ICE will encounter Comet Halley at a distance of 19 million miles in March 1986.

Pioneer 12, launched on May 20, 1978 has been orbiting Venus since that year. It will observe Comet Halley at perihelion, the time when the comet is closest to the sun.

NASA's Solar Max satellite, launched February 14, 1980, will observe Halley's comet from Earth orbit.

Shuttle assists

The SPARTAN astronomical package will be deployed by the crew of the Space Shuttle Challenger on Saturday at 3:43 p.m. SPARTAN will study the coma and tail



Voyager to have close call with mysterious Uranus

By John C. Getley
Avion Staff Reporter

This Friday, Jan. 24, at approximately one p.m. EST, Voyager 2 will pass by the planet Uranus. It is the first manmade object to take a detailed, close-up look at Uranus, its rings, and its moons.

Passing 50,000 miles above the planet's cloud cover at a speed of 45,000 mph, Voyager is expected to gather more information in its six-hour encounter period than has been gained in the last 200 years of terrestrial observation. Voyager 2 was launched August 20, 1977. Together with her twin, Voyager 1, this probe followed

from the sun and third largest, was discovered on March 13, 1781 by William Herschel — the first planet discovered with a telescope. The planet is known to have five moons: Miranda (innermost and smallest), Ariel, Umbriel, Titania, and Oberon (outermost and largest). They range in size from 300 to 1010 miles in diameter and are probably composed mostly of ice or rock.

When Voyager encounters the planet it will be twenty times farther from the sun than Earth and receding 1/400th the amount of sunlight. Data transmitted from Voyager will take 2 hours, 44 minutes, 50 seconds to travel 1.84 billion miles between the planets at the speed of light.

were designed for a five year lifespan.

Four instrument systems are mounted on a scorable scan platform. They are two television cameras, a photopolarimeter, an infrared interferometer spectrometer and radiometer system, and an ultraviolet spectrometer.

This platform jammed in one axis just after Voyager passed Saturn decreasing the amount of data Voyager could collect. Two days later it was moving, but some opportunities for close-up observations were lost.

A lack of lubricant in the scan platform's high-speed gearing caused the failure. Testing and analysis of the platform over the

Journalists hope for space beat

Associated Press

COLUMBIA, S.C. — With the final surge of applications expected this week, organizers predict more than 1,500 journalists will bid to be the first to report from space aboard a NASA shuttle this fall.

The Journalist-in-Space Program's small office at the University of South Carolina received more than 30 boxes of mail containing more than 500 applications last Friday.

The batch of mail brought the total number of applicants to more than 1,100. All but 49 of those applications were received since Monday, Jan. 12.

The deadline for getting the applications in the mail was midnight last Wednesday.

But Jack Bass, public relations director for the Journalist-in-Space Program, said Friday that only "six or seven" of the applications received so far have made the deadline.

Bass said earlier he expected a last-minute surge because "journalists are a creature of



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A lack of lubricant in the scan platform's high-speed gearing caused the failure. Testing and analysis of the platform over the past three years have resulted in the development of methodology for the low speed system that should prevent a similar failure from occurring in the future.

See VISIT, page 12

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Closest Approach

The European Space Agency's Giotto spacecraft, launched on March 7, 1985, will make the closest approach of any spacecraft to the comet. Giotto will flyby Comet Halley on March 13, 1986 at a distance of about 300 miles from the nucleus.

The close trajectory will be calculated using data from the VEGA missions. Giotto will photograph the coma and nucleus, and study the Halley bow shock.

The Japanese Institute of Space and Astronomical Science has launched Japan's first interplanetary spacecraft. The first, Sakagake, was launched on January 9, 1985, and will pass within several million miles of the comet on March 11, 1986. It will monitor the solar wind environment in the comet's vicinity.

Suihei, launched on August 19, 1985, will encounter the comet on March 8, 1986 at a distance of 90,000 miles. Suihei will study the cloud of hydrogen gas surrounding the comet.

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Shuttle assists

The SPARTAN astronomical package will be deployed by the crew of the Space Shuttle Challenger during Mission 51-L, now scheduled for launch this Saturday at 3:43 p.m. SPARTAN will study the coma and tail of Halley's Comet with two ultraviolet spectrographs while the comet is very close to the Sun.

Astro-1 is a collection of instruments designed for astronomical observations from low Earth orbit. Scheduled to be carried aboard the Space Shuttle Columbia in March, the telescopes in the payload will study the comet during the available period on each orbit.

Astro's launch is now scheduled for March 6, at one a.m. Scientists are hopeful that the launch date can be held as this would coincide with other spacecraft encountering Halley's Comet. The launch date is threatened due to the unfortunate delay of Mission 51-C completed last week.

The International Halley Watch (IHW) was organized in 1981 to coordinate ground-based study of Halley's Comet and to assist space missions where possible. The IHW has been expanded to include a Giacobini-Zinner Watch in support of the International Cometary Explorer.

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Uranus, the seventh planet

Such conditions violate NASA's standard for landing weather.

NASA managers made a decision earlier in the week to cut short the flight by one day. Delays in the 61-C launch cover three weeks before NASA plans to squeeze the mission's experiments into four days instead of the originally-planned five. Successful early completion of the flight's objectives allowed managers the opportunity to regain one of the days lost waiting for the launch.

Light rain present

The first KSC landing attempt Thursday morning was subsequently postponed. Astronaut John Young, flying a Grumman Gulfstream G-III Shuttle Training Aircraft (STA), reported light rain on the shuttle's approach path, forcing a choice between a 24-hour delay or an Edwards landing. NASA managers chose to wait for the landing.

and this is absolutely the last time I'm going to tell you."

The only response from orbit was mission commander "Hoot" Gibson's terse "Roger, Houston," accompanied by applause from the other crew members.

Columbia's Orbital Maneuvering System (OMS) engines were ignited over the Western Pacific, lowering the spacecraft's 24,000 feet-per-second orbital velocity by 417 f.p.s. — enough to drop it out of orbit.

An hour later, Columbia was streaking over the California coast at Mach 5 and 140,000 feet. The 210,000-lb. orbiter slowed to touch down on 195 knots on Edwards' concrete runway.

'Seasoned Veterans'

CapCom Griggs, who had opened the flight with the radio

See HOPE, page 10

Orbiter waylaid to Calif.

message, "Welcome to space, rookies," greeted the returning astronauts with the call, "Welcome back to earth, you seasoned space veterans!"

Commander Gibson retorted, "We didn't want more seasoning than planned."

NASA Associate Administrator for Space Flight Jesse Moore declared the flight "A tremendous success. We met at least 90 percent of our objectives. It was a very successful mission."

"Columbia worked very well on-orbit," said Moore. "After being down two years for modifications, we've pleased it come back and operated with no problems."

Closest Approach

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Voyager 1 is now approaching Pioneer's 10 and 11 to Jupiter and Saturn. The Voyagers returned an unprecedented amount of information on the two planets, their rings, moons, and the local space.

Uranus, the seventh planet

in our solar system, will be discovered in 1781. It takes 84 years to orbit the Sun. It is 1.84 billion miles between the planets at the speed of light.

The Voyager 2 spacecraft carries 11 scientific instruments including the spacecraft's radio. All 11 instrument systems are still functioning despite the fact they

have been in space for over the past three years have resulted in the development of methodology for the low speed system that should prevent a similar failure from occurring in the future.

See VISIT, page 12

See HOPE, page 10

Orbiter waylaid to Calif.

By Patrick W. McCarthy
Avlon Staff Reporter

KENNEDY SPACE CENTER, Fla. — Shuttle Mission 61-C came to a quiet finish Saturday with a smooth pre-dawn landing at Edwards Air Force Base, Calif.

Dropping almost invisibly out of the clear California skies, shuttle *Columbia* touched down on Edwards' Runway 22 at 5:59 a.m. PST, almost 40 minutes before local sunrise. Television cameras at the landing site were unable to see the orbiter until just before touchdown. Powerful xenon floodlights which illuminate the runway for night landings bathed the *Columbia* with an eerie phosphorescence.

NASA mission managers opted for the West Coast landing after careful study of the weather conditions at Kennedy Space Center's Shuttle Landing Facility (SLF).

Orbital mechanics require a choice of landing site at least 90 minutes prior to a landing attempt. The shuttle's Orbital Maneuvering System (OMS) engine must be fired about an hour before landing. Guidance computers must be loaded with the proper data well before the OMS engines can be ignited. This necessitates a Go/No-go decision when the orbiter is over the Indian Ocean.

NASA mission managers kept a close eye on the KSC weather, waiting until the last possible minute until finally deciding to divert *Columbia* to California.

Weather at KSC was only marginally acceptable all morning, with scattered clouds at 2,000 feet, a broken layer at 3,500 feet, and a 12,000-foot overcast. Patchy ground fog was also present, as were rain showers within 20 miles of the runway.

Such conditions violate NASA's standards for landing weather.

NASA managers made a decision earlier in the week to cut short the flight by one day. Delays in the 61-C launch (over three weeks) forced NASA planners to squeeze the mission's experiments into four days instead of the originally-planned five. Successful early completion of the flight's objectives allowed managers the opportunity to regain one of the days lost waiting for the launch.

Light rain present

The first KSC landing attempt Thursday morning was subsequently postponed. Astronaut John Young, flying a Grumman Gulfstream G-II Shuttle Training Aircraft (STA), reported light rain on the shuttle's approach path, forcing a choice between a 24-hour delay or an Edwards landing. NASA managers chose to wait for another KSC attempt Friday.

Friday morning's landing opportunity was also waved off due to unacceptable KSC weather. NASA management decided a second one-day extension would give them another chance to attempt a KSC landing. Landing at KSC would save about six days of processing time needed to ferry the orbiter back from California.

As it turned out, Saturday's weather was just as bad as the previous two days; low clouds, ground fog, and rain showers nearby. Young, flying weather reconnaissance in the STA, radioed Mission Control, "It's real dark and cloudy up here [on the normal shuttle approach path]."

Columbia's crew was relieved to hear they were being allowed to land somewhere, following the two postponements. CapCom Fred Griggs joked with the crew, "You're go for de-orbit burn..."

and this is absolutely the last time I'm going to tell you."

The only response from orbit was mission commander "Hoot" Gibson's terse "Roger, Houston," accompanied by applause from the other crew members.

Columbia's Orbital Maneuvering System (OMS) engines were ignited over the Western Pacific, lowering the spacecraft's 24,000 feet-per-second orbital velocity by 417 f.p.s.—enough to drop it out of orbit.

An hour later, *Columbia* was streaking over the California coast at Mach 5 and 140,000 feet. The 210,000-lb. orbiter slowed to touch down at 195 knots on Edwards' concrete runway.

'Seasoned Veterans'

CapCom Griggs, who had opened the flight with the radio

message, "Welcome to space, rookies!" greeted the returning astronauts with the call, "Welcome back to earth, you seasoned space veterans!"

Commander Gibson retorted, "We had two days more seasoning than planned..."

NASA Associate Administrator for Space Flight Jesse Moore declared the flight "A tremendous success. We met at least 90 percent of our objectives. We deployed our customer's satellite [the RCA SATCOM K-1] on time, the Hitchhiker and GAS experiments worked well, and the UVX [Ultraviolet camera experiment] worked as planned."

"*Columbia* worked very well on-orbit," said Moore. "After being down two years for modifications, we're pleased it came back and operated with no problems."

STS 61-C's swan song

By Jim Banke

The heavens were filled with a strange form of music last Friday afternoon, but it wasn't extraterrestrials attempting to make contact with the Human race. The source was not Vega, or even Alpha Centauri, but the crew of the Shuttle *Columbia* on the eve of their return to Earth.

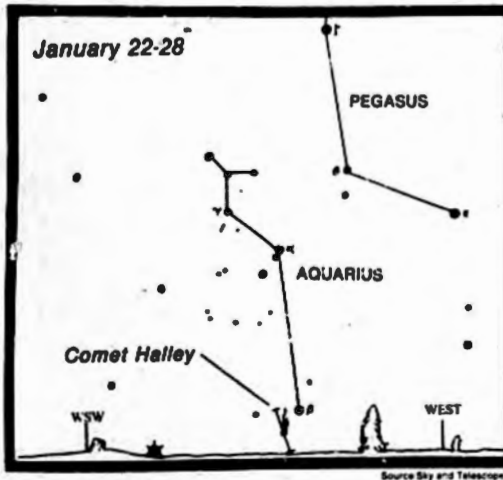
When finally identified the music was discovered to be a satirical version of a 1937 song *Where or When*. Possibly frustrated by the many delays associated with Mission 61-C, Commander "Hoot" Gibson led his crew in a slightly harmonized song with the following lyric, as they said good-night:

*It seems that we have talked like this before,
A de-orbit plan that we copied then,
But we can't remember where or when.*

*The clothes we're wearing are the clothes we've worn,
The food that we're eating's getting hard to find,
Since we can't remember where or when.*

*Some things that happen for the first time,
Seem to be happening again,
And so it seems we'll de-orbit burn,
Return to Earth,
And land somewhere,
But who knows where or when.*

The reply from Earth was a round of applause.



Halley's Comet is getting closer to the horizon each evening as it approaches the sun. Soon the comet will disappear entirely and then become visible again in March and April.

Orbital Inclinations

Turning on teachers...

By Jim Banks
Space Technology Editor

Next week Christa McAuliffe will fly into space — an event that could mean more for the future of America's space program than any publicity stunt anyone could dream up. McAuliffe is not a test pilot, aerospace engineer, or an avionics expert. She is a Junior High teacher from Maryland.

As such, she has to have an infinite amount of patience, a sense of humor, a little common sense, and tons of enthusiasm. Christa McAuliffe has it all, and that could mean great things for NASA's future.

President Reagan chose a teacher to be the first private citizen to go into space, and much has been said about the political overtones of the decision. Others have hounded on the definition of the first "private citizen" to fly into space, saying that Senator Garn, Charles Walker of McDonnell Douglas, or even Neil Armstrong (one of the first civilian astronauts) should qualify for the first citizen title.

While this debate goes on, a movement has begun. Teachers all over the nation are awaiting one of their own to fly into space. And once that happens the teachers will get turned on. I've learned that despite the low pay, high work-load, and seemingly little respect their profession gets, when teachers get turned on, watch out!

Excited teachers will have their students watch McAuliffe do two live lessons from space, and the minds of at least a few young children somewhere in the nation will be forever filled with thoughts of spaceflight.

One of those students may be the first to step on Mars, or be the one to develop a revolutionary form of propulsion. That dream will be reinforced by an enthusiastic teacher who was influenced by McAuliffe's flight.

So for once just let the politics slide, and let Christa have the best flight possible. It will be the best thing for NASA's future.



Teacher prepares for spaceflight



By Jim Banks

Christa McAuliffe will become the nation's first private citizen to fly in space this Saturday when space shuttle *Challenger* lifts off from Pad II at 3:43 p.m. — marking the twenty-fifth flight in the Shuttle program.

Challenger will carry a crew of seven, a Tracking Data and Relay Satellite, an science payload to observe Halley's Comet.

This will be the first use of Pad B, Launch Complex 39, since July, 1975, when a Saturn IB was launched for the Apollo-Soyuz Test Project. The pad underwent extensive modifications, beginning in 1979, to make it ready for Shuttle use. [See story, page 12.]

Four spaceflight veterans will be joined by three rookies for the six-day flight. Francis Scobee will command, and Michael Smith is pilot. Judy Resnik, Ellison

Onizuka and Ronald McNair are Mission Specialists.

Hughes will fly its payload specialist Gregory Jarvis, and McAuliffe rounds out the crew as a Spaceflight Participant — the first American to gain such a title.

McAuliffe will moderate two live transmissions to Earth which will be carried by PBS station WFME-24 in the Daytona Beach area if NASA can hold its Saturday launch date. The live lessons from space, entitled "The Ultimate Field Trip," and "Where We've Been, Where We're Going, Why?" will happen on Tuesday, Jan. 28 between 11 a.m. and 2 p.m.

"The Ultimate Field Trip" will focus on describing the Orbiter itself and what daily life in microgravity is like as compared with living on Earth.

"Where We've Been, Where We're Going, Why?" will educate students about some of the benefits of living and manufacturing in space. This lesson is also intended to introduce the Space Station to students and to offer ideas about how the Station might affect our daily lives on Earth.

In addition to the live broadcasts, McAuliffe will film several lessons that will be available to teachers for future classroom use.



Crew members for Mission 51-L are from left sitting: Michael Smith, Dick Scobee and Ronald McNair. Standing from left are: Ellison Onizuka, Christa McAuliffe, Gregory Jarvis and Judy Resnik.

The second of NASA's Tracking and Data Relay Satellites (TDRS) will be deployed on the first day of flight. TDRS-B will join TDRS-1 in geosynchronous orbit to provide high-capacity communications and data links between Earth and the Shuttle, as well as other spacecraft and launch vehicles.

Spartan-Halley is the second payload in the NASA-sponsored SPARTAN program for flying low-cost experiment packages

aboard the Shuttle. Ultraviolet measurements and photographs of Comet Halley will be made by instruments on the SPARTAN support structure during 40 hours of free flying in formation with *Challenger*.

The orbiter is expected to land at the Kennedy Space Center after 97 orbits with a mission elapsed time of 6 days, 34 minutes. This will be the first landing at KSC since mission 51-D last year.

HOPE

(continued from page 9)

nounced that former CBS anchorman Walter Cronkite and former ABC correspondent Geraldo Rivera had applied to join the crew of the space shuttle.

But Bass did not release the names of any other applicants Friday. The program office has been so busy sorting applications they have not had time to compile

a list of applicants, he said.

More than 4,000 applications were sent to interested journalists, but only journalists serious about making the trip were expected to take the time to fill out the 12-page application, Bass said.

Program workers will make sure each application was

postmarked before midnight Jan. 15, has three recommendations and is signed by the applicant and by the employer, Bass said.

The employer had to agree to allow the person time off with pay to train for the shuttle trip and to make appearances following the flight if selected.

Bass said the applications will

be sent to selection panels on Feb. 1. The panels will name five finalists in early April.

The finalists will undergo tests at the Space Center in Houston and interviews with a panel of senior advisers from NASA. Those advisers will select the winner and a backup and announce them on April 17.



have the best flight possible. It will be the best thing for NASA's future.

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S.G.A.

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President/Vice President (Team)
Chief Justice
10 Representatives

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Tight schedule challenges shuttle processing team

NASA mission managers explain plans for 1986 launch schedule following unexpected recent delays

By Patrick W. McCarthy
Avion Staff Reporter

NASA's 1986 Space Shuttle launch schedule is "tight through May," said Director of KSC Shuttle Operations Bob Sieck. "The plan is full, so to speak," he explained following Saturday's landing of Shuttle Columbia.

Numerous new facilities and equipment will make scheduling of shuttle program elements a challenge for NASA and will force flight to fly this year, NASA doesn't have the flexibility it once had to delay launches and still meet the shuttle program's strict scientific and commercial payload requirements.

Saturday's delayed return of orbiter Columbia from mission 61-C will place more pressure on NASA mission managers and technicians to meet their schedule for the rest of the year.

Pushing Columbia's processing turnaround will be challenging task for KSC technicians. Previously, it has taken KSC workers about forty-six days to process a shuttle for launch. NASA managers think they can prepare Columbia for its next flight in forty-one days.

NASA hopes to save time by not doing some routine maintenance chores and by not installing an extra cryogenic tank which would provide Columbia with extra fuel cell reactants for its power generation equipment.

"These chores are not safety related," said Jesse

Moore, NASA Associate Administrator for Space Flight. "They are routine maintenance tasks. We will not sacrifice safety for the sake of the schedule." Instead of performing these optional

are making fly-bys of the comet. This will allow for simultaneous coverage of cometary events with several of the scientific probes. (See related story, page 9).

The launch window for the ASTRO-1 mission opens March 6. Scientists say if the launch occurs after March 11, data from the telescope's instruments will be less useful due to the lower correlation with the other encountering spacecraft.

"We're optimistic we can get it [ASTRO] off the pad close to the sixth of March," said Moore. Sieck echoed this feeling. "It will take some overtime, but we can do it," he said.

Two scientific satellite flights are also major users of the shuttle launch schedule.

The *Ulysses* solar-polar orbiter and *Galileo* Jupiter probe both have limited launch windows. The two explorers are scheduled to be carried aloft aboard shuttle orbiters within five days of each other in mid-May, one off Pad 39A, the other off Pad 39B.

If their launches are delayed beyond June 9, they can not be flown for thirteen months. Interplanetary launch opportunities are noticeably constrained due to positions of the planets and upper stage booster capabilities.

Both *Ulysses* and *Galileo* will use the upgraded Centaur upper stage, the first shuttle-carried flights of this liquid oxygen/liquid hydrogen booster.

Numerous fly-by tests and fueling tests of the Shuttle/Centaur system are scheduled for orbiter Atlantis as soon as it is rolled to Pad A. Due to the fact NASA currently has only two Mobile Launch

Platforms (MLP's) available, launching and reloading them with shuttles will keep pad technicians busy until a third MLP comes on line late this year.

MLP-2 is now under Challenge at Pad B. Immediately after Challenger's launch, MLP-2 will be moved back to the AAB so Columbia can be stacked for the ASTRO flight.

MLP-1 recently returned from Pad A after supporting the 61-C lift-off. It is now awaiting orbiter Atlantis and its *Galileo* payload, which will then move to Pad A for the fueling tests and fit checks necessary for the new upper stage.

After the Columbia/ASTRO launch, MLP-2 will be used for the Challenger/*Ulysses* mission. While Challenger/*Ulysses* will fly first, most of the initial Centaur tanking tests will be accomplished with the Atlantis/*Galileo* combination on MLP-1.

ASTRO's launch needs to get off on time to avoid infringing on *Ulysses*' schedule. According to Sieck, Columbia will spend almost forty-two days processing in preparation for the ASTRO mission. "We're looking at twenty-nine in the OPF (Orbiter Processing Facility) says Sieck. "Four in the VAB (Vehicle Assembly Building) for mating with the external tank and boosters and thirteen on the pad." For tests and checks prior to launch.

Sieck says there is some room for parallel processing of various tasks, allowing technicians to save several work shifts. "But before we start getting a 'compression factor,' and start eroding in to the time available for *Ulysses*.



Moore...Safety, not schedule

tasks, NASA will put them off until after Columbia's next flight, he explained.

By early March, Columbia must be ready to fly the ASTRO-1 payload, a large ultraviolet astronomy telescope. ASTRO will be used to study Halley's Comet and other celestial objects.

Space scientists want ASTRO operating during the period when a fleet of international spacecraft

Pad B opens for business following modifications

By William V. Combs
Avion Staff Reporter

If you're going down to see Challenger lift off this Saturday, make sure that you look at the correct launch pad. For the first time since July, 1975, Complex 39's Pad B will be used for a manned launch instead of Pad A.

The pad is a welcome addition to America's Space Transportation System as Kennedy Space Center processing will be smoothed by this new "parking spot" for a shuttle. Taking advantage of lessons learned from operating Pad A, the new Pad incorporates many design changes intended to make the job of launching Space Shuttles more efficient.

Pad B was originally built beginning in December, 1964, and was the second of two Saturn 5 pads built for the Apollo program.

and the Apollo-Soyuz Test Project.

Work to reconfigure Pad B for the Space Shuttle was started in 1979. The cost of the modifications is approximately \$150 million.

Perhaps the most significant addition to the pad is the Centaur Rolling Beam attached to the Fixed Service Structure. The beam is an umbilical arm used to transfer liquid hydrogen and liquid oxygen cryogenics from the supply lines on the service structure to a redesigned Centaur Upper Stage located inside an Orbiter's cargo bay.

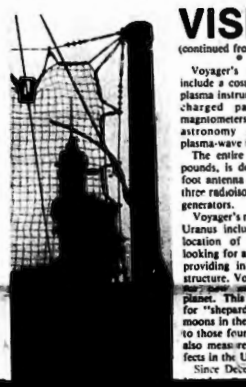
The Centaur will initially be used to launch the Galileo Jupiter orbiter/probe to an interplanetary trajectory from low earth orbit. The Centaur Rolling Beam will remain attached to the

stack, and a new flood lighting system.

The weather protection system is located on the Rotating Service Structure and consists of steel panels which slide into position when they are adjacent to the orbiter. The system is retracted prior to the Space Shuttle's launch.

Hydrogen flare stacks have replaced the old hydrogen burn bond and provide a cheaper, more efficient, and safer way for burning off excess hydrogen that accumulates during the rolling of the external tank and Centaur Upper Stage. Flames from the stack reportedly will reach as high as 200 feet into the air.

Pad B's flood lighting system is different from Pad A's as it con-



VISIT

(continued from page 9)

Voyager's other instruments include a cosmic ray detector, a plasma instrument, a low-energy charged particle detector, magnetometers, a planetary radio astronomy receiver, and a plasma-wave instrument.

The entire craft weighs 1819 pounds, is dominated by its 12 foot antenna and is powered by three radioisotope thermoelectric generators.

Voyager's mission objectives at Uranus include pinpointing the location of the known rings, looking for additional rings, and providing information on their structure. Voyager will also look for new moons.

The planet. This includes searching for "shepherd" moons; small moons in the ring system similar to those found at Saturn. It will also measure the solar wind effects in the Uranian system.

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Uranus. Long duration exposure images returned over the past two weeks reveal six new moons, between 20 and 30 miles in diameter, orbiting the planet between the outermost ring and the moon Miranda. Voyager may detect at least 30 new moons orbiting in and around the rings.

The Voyager encounter with Uranus began Nov. 4, 1985 and will last until Feb. 25, 1986. Voyager 2 will take most of its important measurements during a 96-hour near encounter period lasting from Jan. 22 to Jan. 26. The most intense period of observation will be during the six-hour close encounter period Jan. 24th.

When Voyager's Uranus encounter ends in February, it will be on its way for a rendezvous with Neptune on Aug. 25, 1989. This will be its last planetary encounter before it heads into interplanetary space on July 12th.

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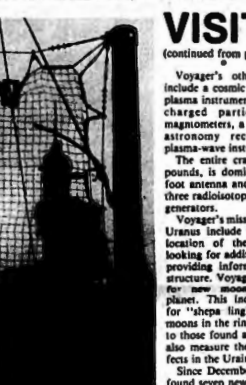
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(continued from page 9)

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During the history of the space program only five manned launches were made from Pad B — Apollo 10, three Skylab crews,

and the shuttle Challenger. The shuttle is being moved from the original Pad A to a redesigned Centaur Upper Stage located inside an Orbiter's cargo bay.

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Since December, Voyager has found seven new moons orbiting

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Avion photo by Jim Banks

Re-opened Pad B's arresting nets for the emergency slide wire frame the Shuttle service structures.

Complete coverage of mission 51-L next week in Space Tech.

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AHP

By John William Heam
AHP Writer

The last meeting of AHP ended with a Christmas party. Presents were exchanged between Brothers. The gifts ranged from Cross pen and pencil sets to beer mugs to camouflage pants to a hat that Brother "Aventura" could finally sleep with. Everyone had a good time. The Brothers then went to "the pub" to finish the evening's celebration.

Engagements (to be married, if there is any doubt) run rampant with the Brothers. Brother Joe Riegelsky is formally engaged to Elena Welch (ring on finger). After a few beers at "the bucket", Brother Sharon "This

Alpha Eta Rho

is Supposed to be a Secret" Byrd inadvertently admitted to being engaged (sort of) to Steve Horn, a former ERAU student now living in California, the granola state (fruit and nuts).

However, Brother "That was Supposed to be a Secret" Byrd immediately changed her story and renounced the whole thing. Speculations still exist about the real story. Brother "Hey Horn, There's a Taste Test Going on Over Here" Zee freely admitted to being engaged to "about two or three girls. No, make that two and three quarters". Brother Zee did not give any names though.

Brother David "Sky Blue Coroner, but no BEAST" Vestal is

back as well as Jacoulline Water. So far there are no rumors in the fraternity.

Speculation and discontent are the general attitudes of the Brothers when it comes to the fraternity house which we had hoped would be finished by mid-March 1986. The old house that looks the same as it did a few days after the "going away" party the frat guy gave it a few months ago.

Many Brothers believe that the fraternity will not get the house at all and are wondering what will happen to the \$3000 deposit we gave around June 1985.

ΣΦΔ

By Thomas Rau
Historian

Welcome back! I hope everyone had a great vacation. Now it is time to start another trimester. Let's all hope for one that is successful. It already looks like one that will be busy. We still have an initiation ahead of us, which means we still have pledges running around. Of course, Rush is right around the corner.

Sigma Phi Delta

For anyone out here who may be unfamiliar with Sigma Phi Delta, we are a social-professional engineering fraternity. Founded at the University of Southern California on April 11, 1924, Sigma Phi Delta has since grown across North America, continuing with its goal of advancing the interests of the Engineering Profession and to create a greater spirit of cooperation and brotherhood among students, faculty and alumni of various

colleges and universities. On Sept. 10, 1960, Phi Chapter of Sigma Phi Delta was installed at Embury-Riddle Aeronautical Institute in Miami becoming the first fraternity at what is now ERAU. If you have any further questions about SPD, feel free to stop by our table in the U.C. during Rush week.

Thanks go out to handiman Steve for his well repairs and to the Brothers of the prime bignest

AFROTC

By C/Maj. Armand Nyborg
Air Force Correspondent

A funeral service for Don Topolinski was held on 15 January in the University Center. Don was a junior AFROTC cadet with a pilot allocation. Classmates recall Don as a well-liked person. A special thanks to all who attended.

Motivation is in full swing this trimester with the seniors setting a new G.P.A. record. Out of 63 seniors, 44 achieved a 3.0 or better. Congratulations and keep up the good work!

This trimester C/Col Ernest Tavares takes over as Wing Commander and Mike Milligan takes over as Vice Wing Commander. Both cadets forecast a productive and enjoyable trimester.

Last trimester a sug Brother program was initiated here at DET 157. The program was designed to provide a link between GMC and POC cadets. POC cadets were assigned several GMC cadets and took charge of their physical fitness tests, and more importantly, provided guidance and friendship.

The Big Brother program has

proved to be a cohesive factor, and will be continued this trimester. Remember, this program is only as good as we make it, so let's work at strengthening this valuable program.

The Special Projects staff predicts many worthwhile trips this trimester. Tentative trips include monthly visits to Park, a tour of Cape Canaveral, a tour of Patrick Air Force Base, and many more.

Cadets are encouraged to attend these trips as they provide an insightful look into the life of an Air Force Base Officer, so get involved!

Navy

By Robert San Gabriel
Public Affairs Officer

On Dec. 5, the Naval Aviation Club (NAC) held a successful field trip to Pensacola N.A.S. Thanks to our cordial hosts at Pensacola, ten NAC members experienced and gained full insight to the AOCS (Aviation Officer Candidate School) program. The trip included lodging at the BOO (Bachelor Officers Quarters), attendance at the glamorous graduation ceremony, tour of the impressive Naval Aviation Museum, and last but not least, a visit to the famous Trader Joe's Bar.

On Jan. 15, the NAC started this semester with a static display of a Navy S-3A Viking anti-submarine aircraft from VS Support Unit (Cecil Field N.A.S.). Our guest speakers that night were Lieutenants Doug Miller (Pilot) and Dave Crandall (Tactical Coordinator). They bestowed

Naval Aviation Club

Submarine Warfare for Carrier Battle Group protection.

On Jan. 16, the NAC was officially inducted into the Navy League of the United States. The NAC is a national organization designed to foster sea power and military awareness through various community activities. The NAC is immensely grateful to the Navy League for becoming our sponsor.

On another note, the NAC was honored to receive an encouraging letter from the Commander of Naval Recruiting, Rear Admiral M.C. Casper. The Admiral's letter stated... "Our aviator goals has tripled since 1984. The Aviation Officer Candidate that Embury-Riddle has provided tend to be very committed and have proper motivation to become future leaders for today's demanding Naval Aviation requirements in the future."

NAC upcoming events for this trimester are as follows:

1. Static display of Navy A-7E Corsair II aircraft from Attack Squadron VA-87 (N.A.S. Cecil Field). The club meeting will feature as guest speakers the A-7E pilot, Lieutenant Commander Bob Stevens, U.S.N. (former Blue Angel, along with his wife, Mrs. Stevens is a Boeing 747 Second Officer with Northwest Orient Airlines, (Jan. 29).
 2. Tentative trip to Mayport Naval Station for tour of aircraft carrier U.S.S. Forrestal (CV-59), (Jan. 29).
 3. Static display of Navy SH-3 Sea King helicopter from Helicopter ASW Squadron SH-7 (N.A.S. Jacksonville). Guest speakers will discuss the Navy's large and growing helicopter force, (Feb. 12).
- The NAC, although not officially affiliated with the U.S. Navy, continues its seventh consecutive year promoting Naval Aviation at ERAU. Membership is open to all students interested in the future of Naval Aviation Officers.

AAS

Arnold Air Society

By LtI Russell Barile
AAS Public Affairs Officer

The Gill Robb Wilson Squadron of the Arnold Air Society wishes to welcome everyone back from winter break. We have a busy and fun trimester planned.

First on the agenda is the AAS Rush Party. This will be an evening of fun giving those interested in joining a chance to talk with

not yet been set, but it will be soon. Watch the bulletin boards for information.

Later this month we will be volunteering our time to work as others and judges at the Special Olympics here in Daytona. On St. Valentine's weekend, we will be volunteering our time to work as Gainesville, Florida. There we will have a full schedule of meetings and fun, with a little cash thrown in.

plan to hold our Road Rally in which contestants will drive a pre-planned course for prizes and fun. Additionally, our usual share of car washes will be held to raise funds.

In closing we would again like to welcome everyone back and encourage prospective pledges to attend our Rush Party and see what the Arnold Air Society is about. Finally, on a merry note, please

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C172's IFR (5)	\$40.00
C172RG	\$50.00
Warriors	\$40.00
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Instrument Course (7:30a.m.-5:30p.m.—7½ HOURS INSTRUCTION/DAY)	\$185.00	FEB 15,16	(4 HOURS) IFR upator (4 HOURS)	\$49.00	on request
Commercial/Flight Instructor (CFI) (4 HOURS—9:00a.m.—12:00p.m.)	\$99.00	FEB 22 & 23		\$49.00	on request
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By Lynne Evans
Counseling Center

FLASH For Leisure And Student Health

are much happier because they receive emotional support. This involvement could consist of such small interactions as speaking to others in the hallways, during meals, or in classes. It is amazing how vulnerable a person can feel when encountering people and places that are unfamiliar, but the key is not to be afraid to let some of your real self show through so others can get to know you. The campus and people will become a part of you, if you are receptive.

If you're a veteran Embury-Riddle student, make an attempt to include the new folks in your conversations. I'm sure you can remember how you felt, not so very long ago, during your first few weeks on campus. ERAU offers over 60 clubs and organizations from which its student body may select. Clubs and Organization Day will be held on Wednesday, January 22. During that time there will be information tables set up in the U.S. with members of various groups available to answer inquiries and sign up new members.

Embury-Riddle is a community of caring people not unlike a lot of other small private univer-

sities. Become a part of it and you'll have many happy memories. I know I will get a pang of nostalgia every time I step on to the campus of my alma mater.

If you're having difficulties adjusting, please come and see me in the Counseling Center.

ORIENTATION TEAM

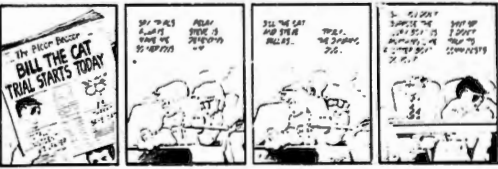
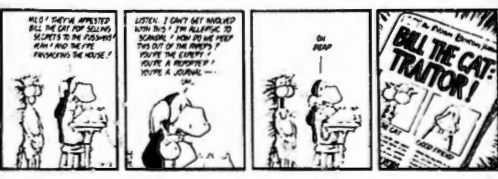
The Counseling Center is currently accepting application for Orientation Leader positions. Orientation Leaders assist new students in making the transition to the ERAU community. Orientation Leaders go through an extensive preparatory program which consists of training in University rules and regulations, communication skills, team building, campus information, academic adjustment, capstones and financial aid.

The Orientation Team is a close knit group of people who enjoy being "human" and helping others.

If you're interested in applying for a position, pick an application up from the Counseling Center and return it by January 31, 1986.

BLOOM COUNTY

by Berke Breathed



"A passing from one condition, activity, place, etc. to another" that's what Webster's New World dictionary defines as a "transition."

Currently approximately 440 new ERAU students and their families are in a state of transition. This adjustment phase to new surroundings and expectations may be painful to some, as loneliness can be an ever present factor in their current daily functioning.

SGA President calls for greater input

By Arnold Leonora
Special to the Avion

Dear Fellow Students: Welcome back and my best wishes for a successful and enjoyable Spring 1986 trimester. The Student Government Association is continuing with its endeavors with you in mind. The Entertainment division of the SGA has some exciting programs planned for this Spring, all of which will be advertised at a later date.

The Avion will be appearing every Wednesday; the Avion is the communication medium bet-

ween you and the SGA. Both the Avion and the Phoenix yearbook are looking for energetic and motivated members of the student body to work in the organization.

I would encourage you to visit the Avion/Phoenix office, and see how you could get involved; it's a great educational and rewarding experience.

During this trimester, the SGA will be publishing a list of current administration's achievements and accomplishments.

I personally would like to invite you to attend our Students Administrative Council meetings

on Tuesdays at 6:30 p.m. in the Common Purpose Room. At these meetings you can let us know what you like or don't like about SGA and the University.

Remember that we are here to serve and represent you, and I'm important that we know how you feel.

You also may want to start thinking if you would like to get involved with SGA during the new administration which starts May 1, 1986. SGA elections will be held on March 20, 1986.

Again, best of luck for the Spring 1986 in pursuing your education at the Harvard of the Sky.

GRANT

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GRANT

(continued from page 1) develop simulation exercises for advanced students. These scenarios could be carried out in the safe environment of an aircraft simulator in which students could safely develop their decision-making skills.

According to Connolly, "Most of our decisions are influenced by non-rational data... data not relevant to the problem itself." These non-rational data can be our motivation for a particular flight. The weather may be unsafe for the flight, but the decision is made to go anyway because we have an appointment that must be kept.

Connolly noted that students are taught about weather and how it affects the safety of flight; however, when the decision is

finally made, this knowledge is not the driving force.

Students can be taught more about weather but, until they learn from experience they will continue to make decisions based on non-rational data. "Experience is a good teacher, but unfortunately it always gives the test before it teaches the lesson," Connolly said.

"The purpose of the simulations will be to help train pilots to recognize hazardous thought patterns and to recognize when they are under the influence of them. The course will not teach pilots how to make decisions, but rather to help them identify thought patterns which are dangerous so that they can ignore the non-rational data and make more sound decisions.

Since there has been a sharp drop in the numbers of combat-experienced pilots in the military, there are fewer people available for the new pilot to learn from. The new pilot is also expected to make good decisions once he is out of pilot training, and simulations such as these are the most effective way to prepare pilots for the situations they will face.

The drop in the number of experienced pilots is also a problem in civilian aviation, and Connolly feels that this kind of training will be highly beneficial to civilian pilots. "The potential for application to the general aviation curriculum and the Riddle curriculum are enormous" he noted. A FAA representative, Dr. Allen Diehl, is working with Connolly to help develop the scenario.

NOTICES

Senior Class

All Graduating Seniors interested in running for Senior Class President or Vice-President, please make an appointment to meet with Laurie Rancos, Senior Class Advisor, by Friday, January 24, 1986.

The first meeting for all April Graduates will be held in the U.C. on Wednesday, February 5, 1986, at 8:00 p.m. Elections will be held for Senior Class President and Vice-President. If you are unable to attend, please contact Student Activities prior to this time so other arrangements can be made.

Student Housing

Students interested in applying for housing for the 1986-87 academic year should follow the steps listed below:

1) From February 3rd through February 14th, students may come to the Housing Office and pick up a Housing Contract between 8:30 a.m. - 5:00 p.m. Students should fill out a Contract and take the completed Contract to the Cashier Office and submit a \$150 deposit. The cashiers will validate the Contract and the student should bring the Contract back to our office.

Self Improvement

Do you read the same page in your text three times before you remember what you read? (Or remember seeing it before, for that matter.) Are you unable to find enough time to get all your studying done? Do you walk around in a daze after exams because you pulled an all-nighter to cram for the test? Do your grades not reflect what you perceive your abilities to be? If you answered "Yes" to any of these questions, we have help for you. FREE Seminars will be offered through the Counseling Center to help get you organized, decrease your anxiety and give you more control over your grades.

Please advance register for each seminar by calling extension 104 or dropping by the Counseling Center (located in the University Centers) so we can bring enough material for everyone.

- The program will be as follows:
 1. January 22 3:15 - 4:30 Faculty Staff Lounge
 2. Taking Class Notes That Will Help:
 - January 28 2:45 - 4:00 Common Purpose Room
 - January 29 3:15 - 4:30 Common Purpose Room

C & O Day

On Wednesday, January 22, 1986, Student Activities will sponsor CLUBS & ORGANIZATIONS DAY in the University Center from 9:00 a.m. - 4:00 p.m. All student groups will be represented to recruit new members and to show what is available to you through hand-outs and demonstrations. All students are encouraged to attend. There's more to ERAU than just classrooms! GET INVOLVED!!!

Career Interviews

During this trimester you will have the opportunity to interview on campus. Please read the procedures for interview sign-up. Contact the Career Center if you have any questions.

INTERVIEW SIGN-UP PROCEDURES

1. A notice will be posted on the Career Center bulletin boards informing students of organizations scheduling campus interviews.
2. When feasible, sign-up will be established three (3) weeks prior to scheduled interview date, closing one (1) week prior to interview date.
3. Sign-up will begin at 9 a.m. in the Career Center on the opening day.

Miss Teen Pageant thrills Daytona

By Pete Merlin
Avion Staff Reporter

The 1986 Miss Teen USA Pageant was televised live this Tuesday from the Ocean Center in Daytona Beach. The fourth annual special was presented by Miss Universe, Inc., a subsidiary of Paramount Pictures Corporation.

Fifty-one beautiful young women, aged 15 to 18 and representing the 50 states and the District of Columbia, competed for the coveted crown previously held by Kelly Hu of Hawaii. The winner received more than \$150,000 in cash and prizes. The new Miss Teen USA became an instant celebrity with an \$18,300 Personal Appearance Contract and an opportunity to appear on a Paramount Pictures television show.

The two-hour entertainment special was hosted by television personalities Michael Young and Morgan Brittany. The two celebrities co-hosted the first Miss Teen USA Pageant in 1983. Other guest stars included The Commodores, the Solid Gold Dancers, and a special appearance by three popular teen singing idols of the 1950's and early 1960's: Bobby Rydell, Fabian, and Frankie Avalon, who are currently touring as "The Golden Boys of Bandstand."

The contestants met the judges for the first time on stage in the Presentation Show last Thursday night at the Ocean Center.

The Presentation Show opened with the "Parade of States", in which each delegate wore a costume representing her home state.

Next each contestant, dressed in an evening gown, was escorted on stage by a caddy officer from Embury-Riddle's AFROTC detachment. Swimsuits followed.

The Presentation Show was also the first time Miss Universe, Deborah Carthy-Deu of Puerto Rico, Miss USA, Laura Martinez-Herring of Texas, and 1985 Miss Teen USA, Kelly Hu, appeared on stage together in Daytona Beach.

Last Wednesday, Miss Universe and Miss USA made an appearance at Embury-Riddle. The two gorgeous young ladies were introduced in the University Center at noon. This was the same moment at which the McDonald's blimp (McBlimp) chose to buzz Daytona Beach Regional Airport. The two events fought to capture the students'

attention in a dilemma only resolvable at ERAU.

Miss Universe, Deborah Carthy-Deu, age 20, told the Avion that she had dreamed of becoming a beauty queen since she was a little girl. Encouraged by her mother, she entered the Miss San Juan Pageant at age 19. "Mom had a good feeling" that she would be a winner, she said.

Miss Universe feels that she has grown personally from her experience. She has greatly enjoyed the travel opportunities and meeting other people. "It's been wonderful!" she said. A University of Puerto Rico sophomore, she originally planned to attend

Cornell University to study electrical engineering. Scheduled for a Paramount Pictures screen test, she now wishes to become an actress. "I had to change my plans at the very, very last minute," she noted.

Miss USA, Laura Martinez-Herring, age 21, moved to Texas from Mexico at age 11, and was naturalized at 14. She made her debut by winning the Miss El Paso contest. She said she had never been glamorous before that time. "I was real shy. I didn't wear make-up or fancy clothes."

While Miss USA has made no final decision about her future, she expressed an interest in communications or public relations. She also commented that she



Avion photo by Pete Merlin



Avion photo by Pete Merlin

The "Parade of States" and Swimsuit competition highlighted last Thursday's presentation show.



Miss Arizona, Kristi Vanney, 16, received the Miss Photogenic Award.

would not mind modeling or acting.

Asked if she had any interest in aviation, Miss USA exclaimed, "I love it! I love adventurous things." She said that as a young



Avion photo by Mark Stone-Montgomery

Miss Idaho, Kathryn Combs, 16, glamorously displays her evening gown during last Thursday night's competition.

girl, she often flew in light planes with a friend of hers.

Miss Universe and Miss USA were invited to visit ERAU by the faculty. While on campus, they had an opportunity to meet the students and sign autographs.

"We want to make people really aware of the importance of the teen pageant!" Miss Universe explained.

A highlight of Thursday's Presentation Show was the announcement of the winners of the Miss Photogenic Award and the Minolta/Beach Photo Photography Contest. First place, for her color snap-

shot of the Atlantic at sunset, went to Miss Utah, Michelle Montgomery, 17. Second place went to Julie Henry, 16, Miss Wyoming, who photographed her roommates reflection in a mirror. Third place winner, Miss Connecticut, Karen Zawacki, 17, photographed two fellow delegates sharing the same towel to dry their hair. The prizes were presented by Alan Robertson of Beach Photo in Daytona Beach, who judged the more than 150 photos submitted.

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DON'T MISS IT!

SEE THIS HAPPY PAIR PERFORM FREE TONIGHT AT 8:30 IN THE U.C.

V-8. This car is very clean, 1990 or best offer. Call Greg at 257-1931.

77 DODGE VAN CONVERSION- surf mural on sides, custom interior, AC, nice stereo, 40-gal fuel tank, towing package, \$3900 obo. 253-1179.

cycles for sale

TS 183 SUZUKI - 1975 runs good, great condition, \$330 or best offer. Call Mark at 252-8143

works excellent, great for the dorms, call Chuck at 253-7995.

MUST SELL: 1983 WEED HOPPER ULTRALIGHT- excellent condition with new motor. Contact Pat Casey after 6:00 pm. 904-963-5353.

FOR SALE: MAPLE TABLE- 2 leaves, 4 chairs. 252-4833, after 6:00.

NEW APPLE IIE, IIC- Mach III joystick for sale, never used, contact Dan Box 5805 or call 253-1151.

SANTILLI FENCING FOIL - \$45, Mark's models 72" r/c sailplane \$36, K & B 40 r/c \$30, GE am-fm-cassette \$30. Contact Curt, Box est.227 or Dorm 1 rm. 338.

WEIGHT SET - 135 lbs and bench. \$35. Ask for Jeff at 767-7089.

GRADUATING SENIORS: If you are interested in beginning fund raising for class projects/party contact Brian Finnegan at Box 2184 or 253-4283 evens. before 10 p.m. Innovative Ideas solicited!

appreciate. Call Ron at 253-6122 evenings, or box 3267.

ATTENTION MOTORCYCLERS:- Equip your bike with the latest technology in radar detecting. It will cost you, but can it compare to traffic fines and costly lawyers? Contact Dan, Box 5803 for more info.

SUPER CHEAP, SUPER EXCELLENT, FLIGHT INSTRUCTION- your program is all I care for. Private pilots, instrument, commercial pilots, CFII. Contact Matt: 767-9367 or ERAU Box 1154.

- Subject headings on left side of page
 - Subject headings in Capital letters
 - Do NOT underline on the resume
 - All resumes must be types in 12 pt (elite)
 - Subject heading MUST appear in the following order:
 1. Name
 2. Present and permanent address and phone number
 3. Education
 4. Work experience
 5. Certificates (flight time— if applicable)
 6. Awards, achievements, activities, and interests
 7. References— "Available on request"
- Be sure to proofread carefully!!!

SMOKE

(continued from page 1)
cigarette fumes. He did mention that the vacuum filters in the planes did get dirty, but are regularly changed during inspection anyway, so presented no problems.

"If it's an issue that disturbs a vast majority of the people, we'll be more than happy to (restrict smoking in aircraft)."

On the side, many professional airlines and commuters do not allow flight crews to smoke

within the cockpit. McDuffey verified this.

"I don't see it (smoking in aircraft) as being serious enough for us to dictate not smoking. We would obviously prefer that people don't, and we're not making people smoke."

The department will maintain its present policy while the topic undergoes further investigation from the flight safety council and department staff.

Λ X A

Lambda Chi Alpha

By Alan E. Williams
Vice President

Another year has passed and Lambda Chi is stronger than ever. The fraternity stands at 50 members and has begun its Spring 1986 r h.

There is a lot of confusion among many people as to what our new members, called Associate members, really are. An Associate member has all of

the rights and privileges of a Brother except those involved with our Ritual.

They have the right to vote on all fraternity business except that business which concerns the Ritual and may serve on, and even head, any of the fraternity committees.

This participation by the Associate members is welcomed and encouraged. These men earn the friendship and help of every

member of the fraternity who hope to one day call them Brother.


175,000 men across the United States and Canada have taken on the challenge of Lambda Chi Alpha and Associate Membership to make this fraternity the third largest fraternity in the world.

Many Lambda Chi Alpha Brothers have left college only to meet again in the business world.

At this time they once again profit from the friends they have made through fraternity life.

For those students who have an interest in fraternity life or even those who have never considered the idea before, please come by and see what you may be missing.

Our meetings are every Monday at 7:30 p.m. in W-306. On Wednesday night stop and see us at Louie's Pizza on Beville Road at 7:30 p.m.




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Open 9-6 P.M.
Monday-Saturday



Veterans



Join the most Dynamic Campus Organization
Associate Membership Welcome

Next Meeting at 7:30 p.m. in the CPR
For More Info., Contact Student Activities

Welcome Aboard Meeting



The Vets Club
The Ad space owned by THE AION

UNCLE WALDO'S

SALOON • BILLARDS
"DAYTONA'S FINEST BILLARD LOUNGE"

BEER • WINE • PIZZA
Regulation Tables-Snooker-Coin Tables
Electronic games-Football



35 Cent Drafts,
35 Cent Hot Dogs
11 a.m. - 7 p.m., Mon. - Fri.

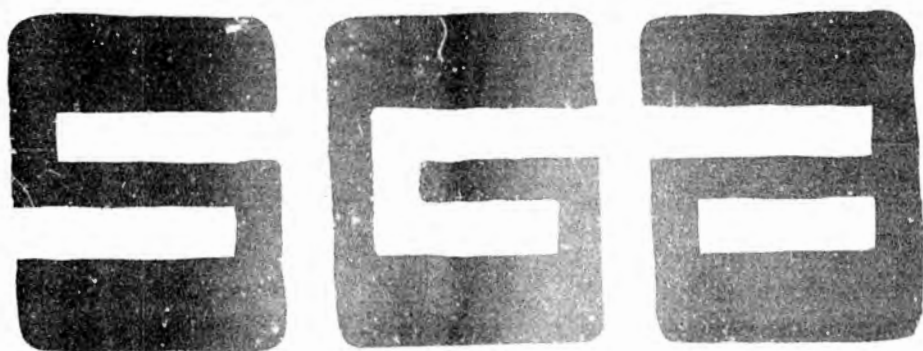
FREE POOL

One hour with this ad and E-RAU ID.
from 11AM to 7PM

Offer expires March 31, 1986

½ price pool for 2 couples on same table

OPEN 7 DAYS 11AM TO 3AM
122 Volusia Avenue 252-3888



STUDENT GOVERNMENT ASSOCIATION

DIVISIONS

Avon
newspaper

Editor in Chief - Richard Calvert
extension 1082 and 1117

What Does The Student Government Association Do For Me?

The Student Government Association exists to promote the best interests of the student body. We provide a voice for the student, through the Administration, the Board of Trustees, and the State of Ohio.

Phoenix
yearbook

Creative Editor - Ray Nates
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ERAU ENTERTAINMENT

Chairman - Ed Hoemskerk
extension 1154

STUDENT COURT

Chief Justice - Chuck Stern
extension 1080



Student Administration Council

President - Arnold Leonora
Vice-President - Jeff Kohlman

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Weekly Campus Newspaper - Avon

*Free Classified Advertisements

Annual Yearbook - Phoenix

Concerts

Movies

Student Government Association Purpose

The Student Government Association's objective is to be of service to the individual student and represents the student body on the Administration level. If any student needs information on a particular issue, personally or educationally, the place to

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STUDENT COURT

Chief Justice - Chuck Stern
extension 1080



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The SGA expresses a student vote on the Embry-Riddle Board of Trustees, a rarity in any other university. Embry-Riddle is YOUR university and the SGA is YOUR representation....

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