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Pool Party
Friday, August 2
4:30 - 7:30 p.m.

This Week Features

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AVIATION

An Award-Winning College Newspaper

Volume 50, Issue 6

Embry-Riddle Aeronautical University, Daytona Beach, Florida

July 31, 1985



Happy Birthday!

Continental Journey is one of several B-17s that took part in celebrations this past weekend which marked the aircraft's fiftieth anniversary. This B-170 carries markings of the 750th Bomb Squadron, 457th Bomb Group based at Gatton, England.

Photo by Bill West

Grant received for composites lab

By Jeff Guzzetti

Development of a composite materials laboratory for the Aeronautical Engineering curriculum is currently underway. The facility is expected for completion by the Spring 1986 term.

The laboratory will be made possible by a grant from the National Science Foundation (NSF), who is providing matching financial support for the purchase of laboratory and instructional equipment to implement new or improved undergraduate programs in the sciences and engineering here at Embry-Riddle.

The new laboratory will be coordinated with an upper-level engineering course entitled "Air-

craft Composite Structures," in which the basic methods of the analysis and design of composite structures are taught. The lab involves the use of precision equipment to conduct a series of standard tests over a range of temperature to determine the strength and mechanical properties of polymer composite materials typical of those used in modern aircraft construction.

According to Dr. James Ladesic, Acting Chairman of the Engineering Department, lab equipment has been ordered from the Materials Testing Service and installation will take place during the Fall term. "The lab will open predicated when we receive and install the equipment," the engineering professor stated.

"Hopefully we'll begin to use it by the Spring of 1986."

Ladesic went on to explain that the composite laboratory will probably be set up in EL-5 in the Engineering Building. This room currently houses the structures lab, which may or may not be moved when the composite lab is implemented.

The composite lab project was written by Dr. Howard Curtis, former department head of the AE program, and under the direction of Dr. Charles Eastlake, a professor who teaches several wind tunnel labs and design courses.

The primary objective of the composite laboratory is to give students, who are mostly unfamiliar with composites, their

first hands-on experience with quantifying the behavior of the materials, thereby preparing them for future work with composite structures once they enter the aerospace industry. The specimens tested will have been fabricated by the students themselves.

Dr. Ladesic commented on the importance of the composite lab to the engineering curriculum. "We've got to get a lab like this or else we'll fall behind in technical education. I believe that the field of composites will soon become a discipline in itself...and this is just the first step."

President Tallman anticipates 'new directions' for University

By Brian F. Finnegan
 Avion Staff Reporter

The future of the university and the new directions it will take were the topics addressed by President Ken Tallman at the first Daytona Beach alumni reunion Saturday night.



President Ken Tallman

In the keynote speech, President Tallman highlighted a move toward preparing our students technologically for our country's future in space.

"Embry-Riddle is a unique, wholly aviation-oriented university and we must build on that," said Tallman. "We know damn well that aviation changes and it's our job to keep up; we have to change. I am committed to making the necessary changes."

During his speech, Tallman supported a forecast of new

keep abreast of the changes and advances in managerial information systems and to train future airport managers to deal with the worsening condition of our nation's airports.

President Tallman said the decade of the nineties will produce "a tremendous leap forward in space. The demands of the

"We know damn well that aviation changes, and its our job to keep up."

—President Ken Tallman

dimensions in composite materials for aviation and space vehicles detailed during the April graduation ceremonies by National Business Aircraft Association president John Winant.

In addition to the incorporation of composites in the construction of the aviation vehicles of the future, Tallman noted the implementation of a "whole new element in the manufacture of engines," and the need to "deal with the noise pollution issue."

He acknowledged the need to

future will be for people who can deal" with this eventuality. Tallman said the management of the university is dedicated to "not sacrificing the principles the university is founded on and not losing sight of the needs of the students and faculty."

The president said, "We need to have a rally point, even without a football team, and that rally point is aviation and space. The alumni need to feel a part of

See Tallman, page 4

Administrative posts slated for redesign

Vice presidents, chancellors named

By Rob Dixon
 Avion Staff Reporter

Embry Riddle is redesigning its top level administrative posts. Dr. Jeff Ladesic, University Chancellor, has been retitle Vice-President.

The office of Vice-President and Chancellor is replacing the title of Provost. Provost Eric Doss has been retitle Vice-President and Chancellor in a move to appoint him an officer of the university. The new title will also better describe him as the chief executive of the Daytona Campus.

Similar changes are occurring at the Prescott and International Campuses. Paul Deley, Provost of the Prescott Campus, and Charles S. Williams, Provost of the International Campus, will be renamed as Vice-President and Chancellor of their respective campuses. They will all report directly to the president rather than the University Chancellor.

This presidential decision followed a consultant's recommendation that Embry-Riddle be more in line with other university administrations.

Another office being created is the Executive Vice-President of Academics. This office will coordinate

the academics of the University. The office of Dean of Academic Affairs will still exist, but it will be controlled by an officer of the University. The new position will direct the overall university academic policy.

Embry-Riddle is presently accepting applications for the position. However, the assistant to the vice president has been named, Dean Sarah Fogle assumed the office August 1. The promotion of Fogle left a void in the office of Dean of Academic Affairs. To fill the void, Luther Kreisig, Dean of the College of Engineering, an Aviation Science, was made Dean of Academic Affairs.

Lee Daniel, Director of Community relations said "The changes were initiated to reflect the emphasis the University is placing on planning, academic affairs and student support." He added that "We are expecting a decision in October as to who the new Vice-President of Academics will be." The University is also looking for a new Dean of Engineering and Aviation Science to replace Kreisig. Daniel said "We will be looking both in and outside the University for a suitable replacement."

Challenger loses engine; achieves operational orbit

By Rob Dixon
 Avion Staff Reporter

Challenger's nominal countdown and launch at 5:00 p.m. last Monday was perfect until the onboard computer detected a rise in temperature in the number one, center engine about six minutes into the flight.

Similar to the problem of the last launch attempt, which aborted July 12 at T-3 seconds, a redundant system controlling the

shape of the fuel pump nozzle failed. The redundant system A took over, but also failed. The computer, sensing an unwanted rise in temperature, then ordered the number one engine to cutoff. When this had happened, Challenger had already passed the point where two engine operation assured them of a safe trip into orbit.

An abort-to-orbit was ordered, meaning that a return to Earth

See Challenger, page 6

Cessna CEO to address grads Meyers scheduled for commencement

The commencement ceremony for graduating seniors of the summer terms is scheduled for Saturday morning, August 17, at 10:00 a.m. inside Peabody Auditorium. The guest speaker for the event will be Russell W. Meyer, Jr., chief executive officer of the Cessna Aircraft Company.

Meyer joined Cessna, the world's leading manufacturer of general aviation airplanes, as executive vice president in June 1974. He was named chairman and chief executive officer one year later.

He served as chairman of the board of the General Aviation Manufacturers Association (GAMA) in 1974, and was re-elected to that position in 1982.

Meyer, a native of Davenport, Iowa, was president and chief executive officer of Grumman American Aviation Corporation, Cleveland, Ohio, from 1966-1974.

From 1961-1966, he was an attorney with the firm of Arter & Hadden in Cleveland.

Meyer was graduated from Yale University with a B.A. degree in 1954 and earned his Doctor of Law degree from Harvard Law School in 1961.

He served with the U.S. Air Force as a jet fighter pilot from 1955-1958, and was also a pilot with the U.S. Marine Corps Reserves from 1958-1961.

He is a commercial, instrument-rated pilot with more than 8,500 hours of flight time.

Meyer is a director of five Wichita organizations, the Fourth National Bank; Kansas Gas & Electric Co.; Wesley Medical Center Foundation; Wichita State University Endowment Association; and the Chamber of Commerce. He is also a director of the Wake Forest University board of trustees and the Experimental Aircraft Association Aviation Foundation.

Meyer is married and has five children.



Russell W. Meyer

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Aerospace Society

By Jim Banks
L-5 Vice President

The L-5 Aerospace Society has not had one of its busiest summers in years, but enough has happened to say that it was not a waste. We were able to get around thirty people down to the Cape for a shuttle launch or two. At the time this article was due, we were still planning to get two cars loaded down for the launch of Challenger.

Ed Zanner, President of L-5, has been directing some planning for this Fall. About the only thing we can confirm right now is

that we will sell laser prints for two days only, Thursday and Friday, September 19 and 20. These laser prints include photos from the new IMAX film, *The Dream is Alive*, now playing at the Kennedy Space Center's visitor's center.

Our first meetings for the Fall will be announced via posters and signs to watch for them. We plan to have a giant cook out/picnic for new and old members before the end of September.

Other plans include celebrating Spaceweek the first week in October. Normally this event is

celebrated in July, at the same time as the anniversary of the flight of Apollo 11. Because this event occurs in the summer, when attendance and student interest is naturally low, we decided to move this celebration to the Fall term. We chose the first week of October since this is the month when NASA began business in 1958.

The events of that week will include a bunch of stuff that we have talked about, but we don't want to let it out now in case we don't do it, and then you'd really be upset.

The senior class committee meets every Wednesday at 5:30 p.m. in the Common Purpose Room. Any graduating senior is welcome to attend. Also, the next senior class meeting will be held August 7 at 7:30 p.m. in the U.C. Student Activities Office. Please, take the time and effort to make a good selection. This reward is highly regarded by the faculty and is one of the few opportunities our faculty are offered recognition. If you have any questions concerning the voting procedure, stop by Student Activities.

There are only a couple more weeks left until Graduation day. If you have any questions concerning graduation, stop by the Student Activities Office and we will be happy to answer them.

The senior class committee meets every Wednesday at 5:30 p.m. in the Common Purpose Room. Any graduating senior is welcome to attend. Also, the next senior class meeting will be held August 7 at 7:30 p.m. in the U.C.

discussion during the past few weeks. Tentative plans have been made for "Rumors" night club.

Details concerning the senior class party will be furnished to all graduating seniors in the near future.

Hopefully, all August grads have received an invitation to the graduation social at the Treasure Island Inn, and a listing of all hotels and motels which will provide discounts for families who are staying in the Daytona Beach area for the Commencement Ceremony. If you did not receive these items, stop by Student Activities.

Ballots for outstanding faculty member should have also been received. The deadline for submitting your vote is Friday, August 2, 1985, by 5:00 p.m. in

airport. AeroClub is the complete overhauling of a triplane that was donated to the squadron. Members enjoy learning about the inner workings of the triplane while at the same time help to restore on the most exciting planes in existence.

Anyone wishing more information may contact Gene Beck at 255-6760 or stop by the squadron building any Tuesday night bet-

ween 7:00 and 9:00 p.m.

The Daytona Beach squadron has much to offer. Pilots can learn aerial search and rescue, which helps to refine and hone their piloting skills. Cheap rental rates of the squadron aircraft are also available to members. Mechanics and others can receive first hand knowledge and experience from the area's finest licensed A&P mechanics.

Riders

Motorcycle Club

By Stuart Robinson
Spokesman Pro Tem

During the past two weeks Riddle Riders has been rather busy, visiting two points of interest in the southeast and planning Fall activities.

The first of the two visits took the Riders on a short 50 mile excursion to Alexander Springs. Once there, the Riders indulged themselves in the shapely sights both above and below the crystal clear water. After some lounging in the sun, the Riders returned to Daytona with Mr. Brown setting the pace.

The following weekend, 21 July, Riddle Riders set course for the Okefenokee Swamp in Georgia. Since 84 percent of the swamp is covered with water, the Riders decided to park their motorcycles and explore the swamp in a 14-foot flat-bottom boat powered by an anemic 7.5 horsepower Merc.

Once on the boat, the Riders

were able to traverse the swamp's muddy channels. We were invited to play in the brown water by an alligator, but our better judgment kept us dry.

This does not mean our channel cruise was uneventful. With spectacular skill and grace, Ramey demonstrated the art of balancing in a boat—and then nearly became an alligator bait.

Overall the ride was enjoyable with good weather and a moderate distance of 410 miles.

To further motorcycle safety both on and off campus, Riddle Riders is once again promoting the Motorcycle Safety Foundation's (MSF) rider education programs. There are two programs, one is for the beginning motorcyclist and the second is for the experienced motorcyclist. For more information concerning either of these programs contact Riddle Riders through Student Activities or Mr. Brown in Glass Office 7.

Riddle Riders is pleased to offer to those students willing to take a MSF rider education course a free motorcycle parking permit for 1986. If you are interested in taking advantage of this offer, contact Stuart at box 4347.

Riddle Riders next ride will be to Jekyll Island off the Georgia coast. The distance will be approximately 320 miles. The date will be 4 August, the time—0800 hours, and the departure point—the motorcycle parking lot. I would like to extend an invitation to anyone interested in making this trip. We would like to see our fellow motorcyclists. You need not be a club member in order to participate, in fact, faculty and staff are more than welcome to attend, as well.

Information concerning all future rides and events will be posted by the door of Glass Office 7.

And the adventure continues...

Senior Class

By Henry G. Pfahdt, Jr.
Senior Class Committee

The senior class has been busy for the past two weeks raising funds for the senior class party and senior class project. So far our efforts show little reward; however, persistence and dedication will insure great rewards come the middle of August. With much discussion and debate the senior class project has been initiated. With funds from the senior class and S.G.A., the library will be presented a floor plan directory of the Jack R. Hunt Memorial Library. The senior class hopes this project will benefit the students, faculty, and staff of E-RAU.

The location of the senior class party was also under much

Civil Air Patrol recruits new members for active squadron

By Eugene Beck, 2 Lt.
Civil Air Patrol

The Daytona Beach composite squadron, civil air, is always seeking new members. Anyone is welcome to stop by the squadron building on Tuesday nights between 7:00 p.m. and 9:00 p.m. The squadron building is located next to the National Weather Service on the southeast end of the

Companies test for drug users

College Press Service
Detroit, MI

Students entering the job market this fall are increasingly likely to face a new hurdle: drug tests.

Companies that for the past few years have tested their employees for drug use are now making students who apply for the jobs take the same test.

"Keeping the workplace safe is an increasing concern," explains

Robert McKee, Atlantic Richfield health department director, "particularly given that the use of drugs is becoming so prevalent."

McKee acknowledges the test detects marijuana up to 21 days after use, jeopardizing someone who can smoke the drug on a weekend, for example, without hurting Monday's performance because the drug's psychoactive effects have worn off long before.

That is why ARCO officials are being told to use the test only as a guideline, he says.

ARCO adopted the test policy in part because it operates several facilities that use hazardous materials.

But white-collar firms also are turning increasingly to drug tests.

IBM officials, for example, began requiring drug tests for all IBM officials, for example, began requiring drug tests for all job applicants last year.

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Women's college changes name to attract males

College Press Service

FREDERICKSBURG, VA.—Now there's a college here that male high school seniors can attend "without worrying about their masculinity."

In fact, it's been here since 1908.

But now it's got a new name, one that boys presumably will like better.

In an effort to shed a lingering image as the women's college it once was, Mary Washington College's trustees have decided to change the school's name to Washington-Monroe College, effective in early 1986.

It took the trustees five years of debate with an unusual alliance of feminists and conser-

vatives to change the name from Mary Washington, who, of course, was the mother of the father of our country.

But the forces of change won, thanks largely to the efforts of Mary Washington Prof. Robert Warner, who has campaigned since 1980 to alter the name to help boost the percentage of male students from 20 percent of the total student body.

"People still think we're teaching home economics up here," Warner laments.

Warner calls the Board of Visitors' July decision "a vindication."

Over the years of controversy, others have called a name change unnecessary, a cancellation of the school's tradition, a slap at feminism and a sure way to wreck

most fundraising efforts among alumni.

Applications to the college have increased each year since Warner came up with the name change idea, and enrollment has crept up to 2900. His supporters

"We have a golden opportunity to tap a much larger pool of students at a time when most colleges see declining enrollments and few options for changing their circumstances."

—Prof. Robert Warner recalls.

think the new name will double or triple the number of applications, and improve the college's reputation.

Warner hatched the idea at a time when Mary Washington, and also other small, four-year liberal arts colleges around the

country, anticipated a declining enrollment.

The school commissioned a survey showing "students preferred a fictional school with a woman's name to our real school with a woman's name," Warner

he says. They thought that somehow keeping a woman's name put us on the curling edge of feminism."

Mary Washington was founded at a women's campus of the University of Virginia, but was forced to enroll men 14 years ago after an American Civil Liberties Union suit successfully proved that "diversity was discriminating on the basis of gender."

"The problem since then has been getting enough men to enroll, and getting male politicians to improve the campus's budget."

"We're still perceived as a women's school in the (state) legislature," Warner says. "I had a state senator come up here and ask me: When are you going to start taking men off here? I couldn't believe it!"

Mary Washington isn't the only former all-female college to have trouble attracting male students.

Sarah Lawrence, Trinity, Manhattanville, Skidmore and

and very few options for changing their circumstances," Warner says.

"People who opposed the name change thought that Mary Washington should be willing to suffer on behalf of a principle," he says. They thought that somehow keeping a woman's name put us on the curling edge of feminism."

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Mary Washington isn't the only former all-female college to have trouble attracting male students.

Sarah Lawrence, Trinity, Manhattanville, Skidmore and

Connecticut College all remain predominantly-female, despite having gone co-educational as long as ten years ago, notes Ann Paulie of the Women's College Coalition.

Studies suggest men eschew the schools because of a lack of sports facilities and programs, and because of a lingering image problem, Paulie says.

It's easier to build a gym than change an image, however.

"It's very hard for a college to have its own niche and be unique once it goes coed," Paulie explains. "In terms of image, they frequently become just another liberal arts college."

But Paulie, whose group represents the nation's 108 remaining all-women's colleges, approves of Mary Washington's name change.

"I think it's probably a reflection of sober, practical thinking," she says. "If they made the decision to go coed, they need to make sure they aren't driving men off campus."

Yet she's unsure the name change will help attract them.

"I'd like to see their studies," Paulie says. "There's a question in my mind whether a name change is really significant in changing the school's image."

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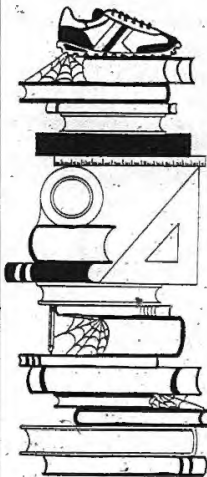
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General aviation orders increase

General Aviation Manufacturers Association

WASHINGTON, D.C.—Billings were up 4.1 percent in June as general aviation manufacturers delivered 185 aircraft or 1.1 percent fewer than the 187 planes shipped in June, 1984.

Billings totalled \$153.3 million compared to \$147.2 million for the month in 1984.

Deliveries through June number 978, or 9.9 percent fewer than 1,086 delivered in the first six months of 1984. Billings for 1985 thus far total \$678.3 million, 8.4 percent below the \$740.4 million recorded in 1984's first half.

GAMA president Edward W. Stimpson noted that first half 1985 results "reflect the current

state of the general aviation market, exacerbated by the uncertainties created by various tax proposals in Washington. We see the possibility of somewhat improved deliveries during the second half."

Piston shipments included fifteen business jets, 24 turboprops, 22 piston twins and 114 singles. While business jet deliveries for the year stand at 66, or 10.8 percent fewer than 74 at this time last year, first half shipments of turboprops are up 47.6 percent at 155 compared to 105 through June, 1984.

Single engine shipments number 654 for the first six months on 1984, compared to 728 through June, 1984, a decrease of 9.1 percent. Piston twin deliveries stand at 103 compared to 183 for the

period last year, down 43.7 percent.

June export billings were up 136 percent at \$36.2 million compared to \$15.3 million in June, 1984. Export of 33 aircraft in June was 32 percent higher than 25 planes sent abroad during the month last year.

Exports for the year to date total 162 or 2.5 percent more than 158 for the first six months on 1984. The year's export billings are up 14.2 percent at \$128.1 million compared to \$112.2 million through June, 1984.

In June, exports accounted for 23.6 percent of shipments and 23.6 percent of billings. For the first half, 16.6 percent of shipments and 18.9 percent of billings were in export trade.

Tallman

(continued from page 1)

the university," Tallman said he sees no reason why the alumni can't have a representative on the Board of Trustees. "He said everyone's collective efforts are needed to determine why some graduates fail and others succeed. "We need to communicate."

President Tallman intends to increase our resources as we

move further into the space age. He said a management consultant team is being formed to visit all the campuses to make recommendations on how to enhance institutional development. "We are too dependent on tuition dollars. We need to take advantage of foundation money and research grants available to us."

"Our number one priority on campus right now is a new administration facility within the next 12 to 18 months," said the president. The location of the facility is still undetermined, according to Tallman, and no specific timeline was mentioned.

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Orbital Inclinations

Local TV not best for NASA news

By Jim Banke
Space Technology Editor

Another Shuttle in orbit, and the fact that it successfully "aborted to orbit" made it all the more exciting. The most disappointing thing about Monday's events was to watch the local television stations magically transform NASA news into a sensationalized, over-dramatized version of "bad science fiction."

I suppose that's the way it has to be. After all, the names of the game is ratings. The more people the stations attract by sensationalizing, the more money they can charge their advertisers. Free enterprise is at stake here, and I certainly don't quarrel with that.

Yet I can barely restrain myself from kicking in the TV when I see the kind of irresponsible, uninformed comments coming over the airwaves. Would you like some examples?

The scene is the 6:00 p.m. news last July 12. An hour-and-a-half earlier *Challenger* had aborted its launch attempt and Jacqueline Boudien is reporting live from the Kennedy Space Center. She has just told us, to the best of her ability, what happened—stressing the "dangerous" situation the astronauts were in when they were "only three seconds" from Solid Rocket Booster ignition. Channel Nine's reporter said the astronauts call this "the point of no return."

Following an interview with NASA's Dick Young (who gave the best explanation of what really happened), the scene switches to Glenn Rinker who says, "Boy that was close." Close for what? If he meant close to launch, that's right. But three seconds is a very long time for the Shuttle's computer, plenty of time to make everything safe. With his tone of voice, it sounds to me what he was implying was this:

"Boy, that was sure close. Those astronauts were almost killed. What with all that dangerous fuel all around. I'm glad that didn't happen though, we would have had to interrupt some more of Star Trek, and who wants to see the real thing when they can see Spock and Dr. McCoy argue about emotions."

During Monday's 11:00 p.m. reports about the abort-to-orbit, I heard a plethora of ignorant comments. The worst was from Channel Nine when their reporter said the astronauts were only "13 seconds from having to return to Earth."

Oh no! You mean they might have to land unexpectedly on a runway in New Mexico. What's so bad about that? I've been to New Mexico and it's pretty nice. The fact that the orbiter's systems did exactly what they were supposed to do in that situation has been strangely underplayed, if not ignored altogether.

The point of all this is that NASA's public image is suffering horribly at the hands of the TV stations. Why can't these local stations just report the facts and cut down on the sensationalistic crap, but certainly not as much from the local stations whose viewers include workers at the Cape and other informed viewers.

Challenger launches, aborts-to-orbit

(continued from page 1)



was not needed and the abort procedures followed would enable them to achieve orbit. NASA official Jesse Moore commented: "The phrase 'abort-to-orbit' is rather harsh and I would like to see a change in its use. After all we made orbit." He added that at no time did NASA consider bringing the orbiter back to Earth.

NASA had three different kinds of launch windows to work with: A scientific window, a hardware window, and a hold window. The hardware window, the actual window that the Shuttle can be safely launched, began at 2:48 p.m. on Monday and ended at 6:30. The optimum launch time for the experiments aboard Space Lab was 3:23 p.m. The third window was an anti-collision window in which the Shuttle cannot be launched. The rule states that the shuttle cannot be launched when another orbiting craft will be within two hundred kilometers. The particular worry of this mission was the Soviet Salyut station being too close.

The science window would have closed at 5:23 p.m., and had there been any delay after that, NASA would have considered scrubbing Monday's launch attempt. Since the optimum lift off time was not realized, some of the experiments will not be performed.

The long hold of 45 minutes was built into the system to give NASA some flexibility as when they would launch. Other considerations that went into the

launch time was the marginal weather at the Shuttle's alternate Transatlantic landing site, in Spain.

A hardware problem that had occurred earlier in the day was corrected by placing a computer patch to bypass the problem. The problem concerned the rate gyros that control the steering of the Solid Rocket Boosters. A software patch was entered into the computer to mask out the error of the rate gyros. The problem was realized when a computer sent an error message to launch control and a system check was initiated. This delay compounded the problem of launching on time without affecting the mission. The clock was recycled to T-minus 20 minutes while NASA trouble-shooted the system.

At 4:10 p.m. the error was corrected and a new patch was installed. The error was found to be in an uplink command originating from the Johnson Space Center, Houston. NASA stated that "We believe that we have cleared up all the problems and we are looking for a liftoff time of 5:00 p.m."

Charles Gordon Fullerton commands this eighth flight of the *Challenger*. The seven-day mission will be primarily an astronomy mission. A special Spacelab configuration will enable scientists to further study the stars including our sun.

The active runway at KSC which would have been used if a RTLS (Return to Launch Site Abort) had been ordered was runway 15. If the failure had taken place earlier in the ascent phase a return to Kennedy would have been ordered.

"The astronauts were not in danger and the shuttle reacted exactly the way it is supposed to run."

—Jesse Moore

The loss of the center engine did not allow *Challenger* to attain its optimum altitude, and additional fuel used possibly affected some of Spacelab's experiments.

The one experiment known to be affected was a measurement of



The Space Shuttle *Challenger* lifts off from Pad 39A at 6:00 p.m. last Monday. Six minutes later the center engine failed.

the Sun's Helium output. The delay in launch and lower orbit will preclude the proper measure-

"The astronauts were not in danger and the Shuttle reacted exactly the way it is supposed to run" said Moore. "We are pleased with the way things turned out and we are prepared for a complete and nominal mission."

Late Monday night, as the *Avion* went to press, *Challenger* had fired its Orbital Maneuvering System to boost the orbiter from its lower orbit achieved during the abort to a new orbit of 169 by 115 miles where the shuttle will remain for the rest of the mission.

ment. Dr. Dan Spicer stated "We are not sure yet how the present situation will affect the Space Lab. Some experiments will have to be aborted. Others will not be affected. We are just not sure yet."

Teacher selected to fly aboard January Space Shuttle mission

National Aeronautics and Space Administration

WASHINGTON, D.C.— Vice President Bush today announced that Sharon Christa McAuliffe will be the teacher to go into space aboard the Space Shuttle next January.

McAuliffe, who prefers to be called Chris, is a social studies teacher at Concord High School, Concord, N.H. She is the finalist in the NASA Teacher in Space Project which was announced by President Reagan in August 1984. Her back-up will be Barbara R. Morgan of McCall-Donnelly Elementary School, McCall, Idaho.

The eight other teachers who reached final competition for the flight opportunity accompanied

McAuliffe and Morgan to the White House.

The 10 project finalists, selected from 114 elementary and secondary school teachers, were announced on July 1 and reported to NASA's Johnson Space Center, Houston, on July 7 for thorough medical examinations and space flight suitability testing. Beginning July 15, the teachers were interviewed by the NASA Space Flight Participant Committee in Washington, D.C.

The committee then submitted the results of the physical examinations and interviews to NASA Administrator James M. Beggs who made the final selection.

McAuliffe has proposed that while in space, she would gather information for a personal jour-

nal. "My journal would be a trilogy. I would like to begin it at the point of selection through the training for the program. The second part would cover the actual flight. Part three would cover my thoughts and reactions after my return," McAuliffe said.

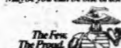
After the flight, McAuliffe has expressed her desire to share her experiences with educators. She said, "As an educational conference speaker, I would share my space flight experiences through a slide or video tape presentation and lecture. As a presenter in the workshop format, I would have the opportunity to meet with small groups of educators from different disciplines and give them suggestions for class projects and activities."

Being a Marine Corps Officer can open the door to opportunities you may have thought were beyond your reach. It helped Marine Officer Charles Bolden become a NASA astronaut. And if you're willing to make the commitment, it could help you also. You can get shared while you're in college with our undergraduate officer commissioning program. You could take advantage of getting:

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Superpowers battle for the conquest of high ground



By Rob Dixon
Aviation Staff Reporter

"Coke is it," or is "Pepsi the choice of the New Generation?" The Cola Wars have finally made it into the realms of the last frontier: Coke and Pepsi are now in space aboard the Space Shuttle Challenger, NASA's fiftieth manned mission.

A year in the making, Coca Cola spent \$250,000 to develop their space proof space can. The can was accepted for shuttle flight on April 24, 1985 following months of rigorous testing by NASA. Until now it has not been possible for astronauts to consume soft drinks in outer space because there was no adequate way to dispense carbonated beverages. Prior to this space age technology, drinking consisted of sucking on a straw from a plastic container.

Robert V. Waltemyer, technical senior vice president, Coke, said "The Coca Cola Company is proud to make this technology available to NASA as its contribution to the U.S. space effort." Waltemyer added, "This is a significant accomplishment for the scientists of the Coca-Cola Company."

Coca-Cola has several patents pending; however, they have agreed to give NASA a license for the use of the technology. If the test proves successful NASA is free to share the technology with other beverage companies for their use in space. The high tech space can is a sealed trigger for a shaving can, but instead of foam, it squirts New Coke.

The inventor of the Coke space can is Special Projects Director, Dr. Ashis Gupta. A native of India, Gupta joined Coke in 1970. He received his

Ph.D. in chemical engineering from Northwestern University.

The road to space for the new technology began in June, 1984, when Coke representatives first discussed the concept of dispensing carbonated beverages in space with NASA scientists. In November 1984 Coke presented a proposal to develop the container. NASA approved the idea. Dr. Gupta submitted initial drawings of the can in January 1985. The can was accepted in April for space flight.

Not to be outdone, Pepsi, in cooperation with Grow Group Enviro-Spray Division, also created a soft drink dispenser suitable for space. Grow Group was responsible for the development of the propulsion system to dispense the beverage.

Looking somewhat like a whipped cream dispenser, the Pepsi can contains a plastic pouch containing citric acid and sodium bicarbonate. When the dispensing trigger is pushed the pouch inflates forcing the Pepsi out of the can at a rate of 12.5 milliliters-per-second, ensuring an even "Earthy flow" of beverage despite zero gravity.

Pepsi is also looking to develop similar technology to dispense Pepsi on Earth.

Both Coke and Pepsi cans received rigorous testing by NASA. The cans were tested on NASA's KC 135 (Affectionately known as the "Vomit Comet") as it simulated the zero g environment of space. The space cans were also subject to extreme temperatures and physical abuse. The physical abuse included dropping the can from six feet to see if it would burst.



First products from space now for sale

National Aeronautics and Space Administration
WASHINGTON, D.C.—The National Aeronautics and Space Administration and the National Bureau of Standards (NBS) announced today the first sales of a product manufactured in space.
"This material is the first of what we expect will be a long line of products to carry a made-in-space label," said James M. Beggs, NASA Administrator.
NBS Director Ernest Ambler said that billions of tiny polystyrene spheres made aboard a Space Shuttle flight are being offered as an NBS standard

reference material. "They will be used to improve microscopic measurements made throughout the economy in electronics, medicine, and other high technology areas," Ambler said.
The space product, which measures 10 micrometers (1/25000th of an inch) in diameter, is being purchased by producers of finely ground powder products such as paint pigments, inks, toners, chemicals, flour and cosmetics as well as by technologists who monitor environmental particulate pollution from industrial and chemical plants.

The spheres also will be used by medical researchers who calibrate instruments to count blood cells and measure their shape and to perform a wide variety of diagnostic measurements. Moreover, the product is available to manufacturers as a reference in producing and distributing secondary measurement standards.
The billions of spheres were produced aboard several Space Shuttle flights using a chemical process developed for NASA by Lehigh University.
The spheres were produced in space because earthbound pro-

cesses have not yielded sufficiently uniform materials in usable quantities. When produced in a low-gravity environment the polystyrene spheres grow uniformly in size and shape.
The space material has been packaged by NBS into approximately 600 Standard Reference Material (SRM) units. Each unit is a 5-milliliter vial that contains approximately 30 million spheres. They are in a 0.4 percent concentration by weight; the remainder is water.

Space Technology will return this Fall with news about aerospace careers, high tech aviation, and the latest from NASA.

'The Dream is Alive'

New IMAX film premieres at Cape

National Aeronautics and Space Administration
KENNEDY SPACE CENTER, FL—A breathtaking, shot-on-location film, photographed largely by American astronauts in Earth orbit, has made its Florida debut at the Kennedy Space Center's SPACEPORT USA.
"The Dream Is Alive" is an IMAX production that captures on film some of the awesome beauty and thrilling sensations of spaceflight that so far have been experienced only by those who have flown beyond Earth's atmosphere.
Narrated by former CBS anchorman Walter Cronkite, the 17-minute film offers an insider's view of America's Space Shuttle program and features spectacular in-flight footage shot by 14 NASA astronauts during three separate missions in 1984.
Astronauts who participated in the making of the large screen film collectively agree that the ex-

perience of viewing the in-flight footage is "the closest thing to being there".
Jointly underwritten by the National Air and Space Museum and Lockheed Corporation, "The Dream Is Alive" is a \$3.6 million film production that allows viewers the opportunity to visually experience the startling reality of weightless space travel.
The new IMAX film will be shown exclusively in Florida, at Kennedy Space Center's SPACEPORT USA. Daily showings begin at 10:45 a.m. Monday through Saturday, and at 11:30 a.m. on Sundays, and run continuously every 45 minutes through the last showing at 5:30 p.m.
Introduction of "The Dream Is Alive" as the main IMAX feature at SPACEPORT USA follows the highly successful year-long run of the popular IMAX film "Hail Columbia," which will continue to be shown at KSC during specially scheduled viewings.


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Big bucks to be made through discount brokerage

By Arnold Leonora,
Special to the Avon

Discount brokerage has become a low cost tool to buy or sell stocks and/or bonds. Discount brokerage houses are in competition with E. F. Hutton, Merrill Lynch, and other big brokerage firms.

For the ERAU student who has taken a few courses in the management department, such as Finance, Corporate Finance, Economics, and Accounting, discount brokerage should be an inexpensive way of investing. However, students who have knowledge of investment markets and corporations should use discount brokerage for investing in stocks listed on the New York Stock Exchange, American Stock Exchange and over-the-counter.

What do discount brokers do? They don't offer you a strategy for a lifetime of investment opportunity and financial security. They won't help you cope with a financial world that has become infinitely more complex. Unlike the full-service brokers

who ask you to "bring us your future," their main job is simply to sell you stocks and bonds you already know you want to buy or sell. If you step into a bank or thrift and call the discount broker, you will talk with an employee—the next available one—who will act as your agent in buying or selling securities.

For acting as your agent in the sale or purchase of securities, discount brokers charge a fee anywhere from 50 percent to 70 percent less than you would pay to a full-service broker. Discount brokers can execute your transaction on all national and regional exchanges, and dive into the "pink sheets" to execute your trades in the over-the-counter market. Like full-service brokers, they have Securities Investor Protection Corporation (SIPC) insurance, which protects customers against the firm's liquidation for up to \$500,000 (up to \$100,000 for claims in cash).

Once you hold securities in your name, discount brokers can offer you the same services as full-service brokers: free

safekeeping accounts; periodic statements with all transactions, including dividends; automatic transfers to your checking account; and cash management to keep your idle cash at work.

What discount brokers don't do? By law they can't say yet underwrite new issues, hold stock in their own name; or ask you to

full-margin services (you buy securities with a down payment and borrow the balance from the broker) at interest rates that are among the industries lowest.

What services do they offer? Discount brokers, as they begin to operate inside the offices of their parent banks or thrifts, will continue to expand their services.

Once you hold securities in your name, discount brokers can offer you the same services as full-service brokers: free safekeeping accounts; periodic statements with all transactions; including dividends; automatic transfers to your checking account; and cash management to keep your idle cash at work.

buy a particular stock or bond. To keep costs low, discount brokers do not offer investment advice or research and advisory services to their customers. To cut cost even further, discount brokers employ no salespeople; their registered brokers are compensated by salary.

Because many of the larger discount brokers are owned by banks and thrifts, they provide

Most will offer you credit cards and checking accounts. They will be able to sell money-market accounts, no-load mutual funds, and tax free bonds, and many of them now offer their own cash-management account. The usual amount to open an account is \$1000 in cash or \$5000 in securities.

Who should use a discount broker? Since discount brokers have no commissioned salesperson to give you help or advice with your security portfolio, do not ask for—or expect to receive—investment advice or help. The discount broker is ac-

How do you open a discount brokerage account? At almost any bank or thrift. The big banks have the largest discount brokers (Bank of America owns Charles Schwab, and Chase Manhattan Bank bought out Rose and Company).

Some discount brokers require you to open an account with anywhere between \$1000 to \$5000 in cash, and/or between \$4000 to \$20,000 in securities. Regional and local banks who have discount brokerage usually do not require any cash to open an account (Examples are: Southwestern Bank Brokerage, Security Pacific

Brokers, Coast Federal's INVEST).

Check with your bank to see if they can offer you a discount brokerage account with no cash to open one. If it doesn't cost you anything, open it; you may never know when it can be handy. Discount brokerages that I have had good experience with, and do not require any money to open your discount brokerage account are Sun Bank, Southeast Bank, Security Pacific, and Coast Federal. Charles Schwab is a reputable and well-operated discount brokerage firm. They require \$5000 to open a "Schwab One" account. Shop around before you make your decision on where to open your discount brokerage account.

Definitions of terms used in this article: Thrift institution: organization formed primarily as a depository for consumer savings; the most common varieties of which are the Savings and Loan Association and the Savings Bank. Pink Sheets: daily publication of the National Quotation Bureau that details the bid and asked prices of thousands of over-the-counter (OTC) stocks.

MASS

7:00 PM.

Every Sunday

Common Purpose Room U.C.

'Wellness' promotes prosperity

By Lynne Evans
Counseling Center

Bored, anxious, tired, lonely, restless, pulled, unfulfilled, or goalless? If any of those words characterize the way you have been feeling recently, you may want to evaluate your overall personal "wellness."

There are six realms of "wellness." They all contribute to an emotionally and physically healthy person.

The intellectual component of "wellness" encourages creative, stimulating mental activities. As students, this is usually provided for you through your classes. The emotional realm is measured by your ability to handle stress, your awareness and acceptance of your feelings, and your view of life. Goals in the physical realm would encompass regular exercise routines, and knowledge and application of good nutrition. In the social component one would be examining their relationships with friends and family as well as altruistic factors.

The career component, is reflected mostly by your career goals, at the student stage. For example, are you happy with your current career aspirations? The values realm focuses on your own ethics and the purpose you see for your life.

If any of the six areas are out of sync, you may be experiencing some of the aforementioned feelings. Your body and mind work as a whole and all parts need to be nourished in order for you to maintain your health.

There are "wellness" inventories available in the Counseling Center and Health Services; we encourage you to come in for more information. We will address each area in depth in future articles and on our bulletin boards.



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Databook available for aircraft statistics

General Aviation
Manufacturers Association

WASHINGTON, D.C.—Facts and figures on the U.S. general aviation industry, planes, pilots and aeronautical facilities are now available in the 1985 GENERAL AVIATION STATISTICAL DATABOOK from the General Aviation Manufacturers Association.

Stock analysts, reporters, public speakers and many who are interested in general aviation use the DATABOOK as a resource for industry trends. The 1985 edition details the U.S. industry's shipments since 1946, including 1984's nearly 16 percent increase to \$1.7 billion in new aircraft deliveries.

New for 1985 are data on U.S. aircraft exports since 1965 in number, percentage of shipments, value, and percentage of industry billings. A second new chart on exports details U.S. aircraft exports since 1972 by type of aircraft. This perspective is valuable in light of current international trade issues and severely depressed U.S. general aviation exports.

The 32-page DATABOOK shows there are now 213,293 aircraft in the U.S. general aviation fleet, up from some 209,000 counted the previous year. Some 72,376 U.S. pilots have some 16,000-plus landing facilities available in the U.S.

For a copy, send \$3.00 cash, check or money order to GAMA DATABOOK, 1400 K Street NW, Suite 801, Washington D.C. 20005.

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Jeff, box 5602
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quiet family neighborhood, 13 months
plus 1/2 utilities and phone. 3 miles
from school. Must be clean and a
worker. For more information call Peter
922 310 or 253-2555 or Q1 house on
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1229 or after 6:00 p.m. at 284-0776.

ROOMMATE NEEDED-For August to
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dishwasher. (Great location), nice
neighborhood. (Reliable), two
weeking, quite (friendly) place. \$225
per month plus 1/2 utilities (no electric
bill). \$170 deposit. Call Debbie at home
in the evening 767-0773 or at work dur-
ing the day 264-4144.

miscellaneous
for sale

MUST GO-Subaru (1 year old); two
bed; variable w/2 folding chair; A/C
model; replicas models are scolded and
completely finished; painted and
decorated in a way to show best detail
from Air Jet Advance Inc.; television
stand; Zenith color television also a night
stand. Also including a Ultramar Herff Jones
kit. New site location. (Great deal) and
type stone (must see to get full details).
Call on 10 pm or drop a note to Box
6076. Phone number is 253-1408.

TABLE AND FOUR CHAIRS-\$240 or
best offer. Call Tim 253-2233.

FOR SALE-2 lamps, \$50, 4 metal beds,
\$100. Call Mike 788-6382.

KING SIZE WATERBED-Frame, liner,
lenses, and mattress. \$140/obo. 12 sport
bicycles, 26 inch, blue, like new. \$70. Also
a desk. Office type. \$50. Call Ralph at
255-7755 or box 709.

P, R, G, O, R, M, A, B, L, E
CALCULATOR-HP 41C. A must for
all engineering students. \$150/obo. Call
672-2745 or ext 1176. Ask for Joe.

BALFOUR FOR SALE-1977 34 Bu-
cancer cheap rugged without. Brand new
should (22" x 7") 31-hoodroom, reduced
mile. 1 burner above stove, dual, refrig.
30 w/ More w/ 4th axle. EZ transfer
trailer. \$10 at Prince Island. \$12,500. Call
253-0113 (evening).

TABLE AND THREE CHAIRS-\$50;
new 282, slight bend, 840. (Diesel and
chairs available). Call Robert after 8 p.m.
258-1979.

COLOR TELEVISION-19 inch
Trinitron. One year old. 100 channels,
color ready. Remote control, easy con-
trollability. Looks like new. Asking \$285
or best offer. Call 252-3237 after 3 p.m. if
possible.

TWIN BED-Really Excellent condition
also frame and one set of linen. \$55.
\$179-8760 after 6 p.m. or on campus ext
1348.

S.S. RIDGE-"Red Hawk" 44 Gas
pistol, 3375; S.S. Ranger Moss-14, folding
stock, flash suppressor, optic, mic. Call
1155, or 253-9668 after 9 p.m. Ask for
Nick.

BIKE WINDSHIELD-Flu most motorcycle.
Brand new and complete! Only
\$75 obo. Call Greg at 253-9996 or box
963.

BOA CONSTRUCTION-1 1/2 years old,
3 foot long, friendly, easy to care
for-terrible pet. Large apartment with
cover, heater included. \$70. Moving
soon. Call 253-4954 or box 4083.

LIVING ROOM SET-Seven piece,
couch, coffee table, 2 and 4 tables, dining
table and foot stool, bed a chair and
lamp. Good Condition. Only \$300. Also
Washed for sale. Only \$220. Brand new
concept "garage". Call Michael at
255-7353 or 253-4203.

BICYCLES FOR SALE-Pragmat/150
and Schwinn/140. Negotiable. Good
condition. Contact Franzi at 253-7518.

7 PIECE CHAIR-Attentionally known
as "The Praston Plan", this seven
piece couch is priced to sell at \$550. Brand
new and quite frankly, very durable! Call
between 7 am and midnight. Ask for
Mike. Call 761-7346 or Box 4572.

5 SPEED BOTTECHIA-Mint condition.
\$90 firm. Chromed frame and
aluminum rims. Price 215-1000 or drop
a note Box 2782, Edwards Lombana.

GRADUATION SALE-Everything being
sold is cheap and in excellent con-
dition. Items include: desk w/chair; desk
lamp; lamp/night stand; card table
w/chairs; bed chair; 2 plastic chairs; wall
clock; hand; pingpong; and a great living
room set with 2 chairs, sofa, 2 end tables,
and a coffee table. Contact Mark at
253-5082 or Box 4571.

MUST SELL-Pioneer Receiver SX
3900, 1100; Pioneer Disc-Drive Turn-
table, 370; AAI Cassette Deck (CS-AM);
\$50; pair of speakers 70 watts, \$150; AUC
Equalizer 20 band, \$100; Realistic Mixer,
\$20; or everything for \$2000. Contact Jerry
756-3844 after 5 pm.

DISHWASHER FOR SALE-Hotpoint
automatic, regular capacity. Perfect for
apartments or small kitchen. Still in great
condition, asking \$100 firm. Contact Pat,
Page 7199.

services

WHEN IS TYPING THAT MUST BE
DONE
NO NEED TO SPON YOUR FUN...
CALL C.J. 763-7439
AND LEAVE THE TYPING TO US!!

Do you have tears, split seams, broken
spacers, etc?
I will do your reuniting and repairs on
these mesh clothes and fabrics. Affor-
dable. Call Wanda 788-4331.

PROFESSIONAL TYPING SER-
VICE-Familiar with ERAU formats
for technical reports, resumes, and term
papers. Call our toll-free page. Call
Mary at 1241 or 763-0778.

miscellaneous

LOST PILOTS LOG BOOK-Last bound
(13-14 inches long-thick cover). May have
been in one of the PA-44's, or in the
Flight Operations area. Other possibi-
lities: U.C. Dining area, and the
L.R.C. Cash reward. Please send note to
Russ Siedler at box 1015.

personals

Wanted to contact anyone who has served
with the 42nd Airborne Division for
possible attendance at annual convention to
be held in August in Fort Lauderdale.
Call Tony Patis at 762-3347 or box 7276.

Dear Family,
This is it. Only 17 days till we
home. Since this is the last issue
before we arrive, it's kind of a special
moment. Not for you, but for the hundreds
of students who were dumb enough to
read the Personal week after week and
wasn't even written to them. See you very
soon.
Chief Space Cadet III

It's sure been different these past few
months. (I might even say it was an
enjoyable experience... nah.) Seriously,
well, I haven't taken this stuff seriously
yet, but if I did you folks are a great
bunch to work with, regardless of what
people say. Looking forward to Volume
II. Assuming I get stuck with that job
again. (What a scary thought!)
C.S.C. 2

NOTICES

7:30 p.m. in W 306. All facets of the exam will be discussed with vital
information disseminated.
Faculty members available to respond to any individual concerns
regarding the exam itself include Harry Shoff, Humanities, (A 224)
and Deborah Osborne, Mathematics (A 215).

CLAST preparation aids are available on reserve in the library and
for purchase in the bookstore.

Attention Fall '85 Graduates

Fall graduation applications are being accepted now and a student
will be given a PRELIMINARY GRADUATION EVALUATION in
order to help prepare for a smooth completion. Any necessary
change to a student's Fall registration can be done during the
add/drop period.

We will try to have all calculations done before the final "ADD-
DROP" date.

August Graduates

Should you need an official transcript for an employer, it is
necessary for you to make a written request to the Registration and

Records Office. Suggestion: stop into our office before graduation
and fill out one of our request forms.

Foreign Student Notice

As advance publicity for International Day 1985, we are looking
for volunteer group cooks to prepare foods for photographing.
Any foreign students (or wives) willing to work on this project please
contact the Foreign Student Office.

VA Financial News

Beginning with the Spring 1986 Trimester, E-RAU will participate
in the advance payment plan with the Veterans' Administration.
Qualified persons are New Students, Active-Duty Personnel and
returning students with 30 days or more between terms. For addi-
tional information call Deborah Butts at ext 1121.

The campus VA Office is being bombarded with the new 85/86
evaluation worksheets. Please notify the VA Coordinator if you are
planning on changing your catalog; she will not use these without
your prior approval.
Just a reminder: Tutorial expense and Co-op are for G.I. Bill recip-
ients only.

SGA Meeting Minutes

Student Administrative Council Regular Meeting

July 16, 1985

CALL TO ORDER: President Arnold Leonora called the meeting to order at 6:02
p.m. in the CPR.

B. Phoenix-Editor Little reported that Moise Yuas will be attending the Tampa
Workshop sponsored by the Taylor Publishing Co. Jean Snyder, Advisor to the
Phoenix will also be attending. Work involved how much paper percentage wise is based on
ERAU functions, job marketing, sports, etc. McCarthy explained that in the Fall they
will have more career oriented articles, for instance interviews with co-op students to
show how their jobs went. Jim Banks, Space Editor, will continue having two
pages of space news in each issue. Legathy discussed on the make up of the paper.
Avion encourages letters and articles from anyone in regard to school functions, pro-
jects, etc. Looking into state to hold papers at the various distribution points.

A. Arnold indicated a motion to recall the vote on the Task Force recommendations.
MOVED BY GEOFF, Seconded by Leo. Discussion. Motion approved by the following
vote: Yes 7, Nays 5.

A motion to be recalled-MOVED BY BRENDA to approve recommendations
as presented. Motion approved by the following vote: Yes 9, Nays 1. President
Leonora was the recommendations to SUB and PCOAC for consideration.

IV. VICE PRESIDENT'S REPORT
1) Jeff reported that SUB approved the Chamber of Commerce membership of

\$100 for the SGA. MOVED BY WAYNE, to approve sending the check to the
Chamber of Commerce. Seconded by Brenda. Discussion: Dean Robertson explained
that in order to get an "opportunity" card for every faculty, staff, student on campus,
the Chamber has agreed to include the plans to ERAU to have the cards printed.

3) Incentive request: Student Count \$150 for work/social dinner. MOVED BY
MATT to approve. Seconded by Peter. Motion approved by the following vote: Yes
9, Nays 0. Awaiting 11.

4) Discussion of SGA Incentive Box TRIP. MOVED BY GEOFF to approve \$200
deposit on the Dixie Queen boat. Seconded by STEVE. Discussion. Motion ap-
proved by the following vote: Yes 9, Nays 0, Awaiting 11.

5) 1986 has been requested to present a detailed report on the financial history of the
financial records of the SGA and requests assistance in their research.

VII. AERONAUTILUS FITNESS CENTER
Discussion of the committee met today and discussed expansion plans and the
feasibility of such an operation. Further concluded that we should do a financial study
to larger how much it will cost for the extra supporters versus the program revenues of
decreased membership and also, check with other similar facilities around town to see
what they have that we could furnish our students.

VIII. OLD BUSINESS
1) The Phi Alpha constitution-MOVED BY LEO to approve the amended Con-
stitution. Seconded by Matt. Discussion: Sue Barlow was recognized and introduced
other potential members of the society that have been working to get sorority on
campus. Motion approved by unanimous vote.
These minutes have been edited for brevity. Complete minutes are available in the
SGA office.

A Travel Connection

Full Service Computerized Agency
Never a Service Charge
Airline Tickets
Cruises-Tours
Hotel and Car
Reservation
All Major Credit Cards Honored
Home for the Holidays
at Lowest Possible Fares
Contact Our On-Campus Representative
Freddy Pertuz E-RAU Box 6078,
or Call 262-0748
140 South Beach Street, Suite 108
International Plaza, Daytona Beach
(BETWEEN MACDONALD AVENUE AND FORMERLY KRESS BUILDING)

Local reunion strengthens ERAU Alumni Association

By Brian F. Finnegan
Avion Staff Reporter

Is there life after graduation? If the reunion held this past weekend by the ERAU Alumni Relations department is any indication, there most certainly is. Graduates from all over the country, boasting commencement dates as far back as 1928 gathered on the Daytona Beach campus last Friday, Saturday and Sunday for their first-ever reunion held here. For many, it was an opportunity to discuss the continual changes occurring in the industry. For others, it was a chance to reminisce about how things used to be.

Organized by Alumni Relations Director Phil Metz, a 1981 Aeronautical Studies graduate, the event represented another step toward a strong and influential alumni association. Metz emphasized the need to unite our graduates and to create an open communications link. There are currently alumni chapters in Seattle and Atlanta, both of which are very active.

Metz said plans are actively being pursued to establish chapters in Washington, D.C. and in Central and South Florida. Seven thousand dollars have been budgeted over the next two years to accomplish these goals, said Metz.

Laying claim to the oldest graduate status and to having traveled the farthest to par-

ticipate in the event was Steve Stephan, a 1928 flight graduate from Malabar, Florida. Stephan learned to fly under the tutelage of J.P. Riddle in Lunken, Ohio. In fact, Stephan brought his diploma with him, an authentic sheepskin which, incidentally, was unsigned. Unfortunately, Mr. Riddle was not on hand to apply the delinquent signature.

After graduation, Stephan went to fly for American Airlines where he spent his next forty years. His career with Americans culminated in 1968 after three years of contract flying for the military to Vietnam. He was flying 707-323 cargo planes carrying blood and other essential supplies.

Assisting Phil Metz in the production of the event was Daytona Beach campus Alumni Liaison Jean Snyder. With the assistance of Career Coordinator Greg Patschek, a 1981 Aeronautical Science graduate, Jean prepared the invitations for the faculty and staff and organized a highly successful tour of the Kennedy Space Center on Saturday.

A banquet held at



Almost 100 ERAU alumni attended last weekend's first-ever reunion. The event began with a barbecue here on campus on Friday and concluded with a banquet on Saturday.



Alumni Relations Director Phil Metz addresses fellow alumni

Sweetwater's restaurant in Port Orange provided the finale for the reunion on Sunday. The keynote speaker was University President Ken Tallman. In his speech he said the university was in a "great" shape and pledged

support for the development of the Alumni Relations department.

Tallman also pledged that during future alumni reunions the bookstore would be open in response to the general dis-

appointment expressed by those touring the campus Saturday. Many were returning to their alma mater for the first time in many years and wanted an opportunity to re-acquaint themselves with the old familiar blue and gold.



Avion Staff Reporter Brian Finnegan interviews Steve Tallman, a 1928 graduate who is claimed to be the oldest ERAU alumnus.

Stephan flew for American Airlines for 40 years before retiring in 1968. He also flew blood and essential supplies into Viet Nam.

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Country Club living at its best, that's Hawk's Landing at beautiful Pelican Bay. Not only is this premier community surrounded by one of two 18 hole golf courses, but just steps from these exciting new patio homes is your own private pool and bath house exclusively for Hawk's Landing residents. Just a stroll across the golf course is a bridge that will lead you to

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Beverly Road - S.R. 400 - Near I-95, Daytona Beach

In Order To Qualify For On-Campus Employment You Must:

- Maintain at least a 2.0 cumulative grade point average
- Be enrolled at least half-time status (6 credit hours per trimester)
- Complete at least 66 percent of your attempted credit hours

The Following On-Campus Jobs Are Currently Available:

1. Office Work/Bunnell - Good typing skills and organized, involves typing, filing. Must be a Sophomore.
 2. Typist - 45 wpm, flexible hours.
 3. Dishwasher.
 4. Office Help - Must type 30 wpm.
 5. Building Maintenance, Painting.
 6. Courier - Mornings M-F. Valid Florida driver's license required.
- All on-campus jobs pay \$3.35/hr.

For further information regarding these jobs, or information on off-campus employment listings, please stop by the Student Employment Office.

ERAU ENTERTAINMENT PRESENTS

A POOL PARTY

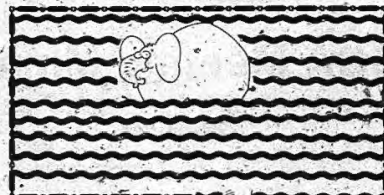
Featuring

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Munchies and Beverages provided

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Come join your PARTY ANIMALS (friends) !!



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AUGUST 2nd
4:00 to 7:30



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