



Avion

Newspapers

11-6-1985

Avion 1985-11-06

Embry-Riddle Aeronautical University

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About a third of all teachers think students would get a better education if tenure was abolished, a survey of campus faculty members from around the nation has found.

The survey, conducted by the Carnegie Foundation for the Advancement of Teaching and released Oct. 14, also found out that almost four out of every ten college teachers are thinking about changing their careers within the next five years.

Acquiring tenure traditionally has been one of college teachers' primary goals because it protects them from being fired without cause. But tenure is harder to get now than it was five years ago, about two-thirds of the professors polled said.

According to William Brown, an ERAU Associate Professor in Business Administration, "The issue of tenure is not that big of a problem at Embry-Riddle."

Carnegie officials say that

results surprised them, discovering that 38 percent of all faculty are thinking of leaving the profession within five years is alarming.

"Overall, we're talking about a profession that may be in a lot of trouble," says foundation official Maria Ucceli.

Faculty members were not asked why they might leave teaching, but their answers to other questions convinced foundation officials there is a widespread morale problem.

"At Embry-Riddle, low pay in relation to teachers' salaries at comparable universities and a large class workload are the main problems," said Brown. "This creates a feeling of being treated unfairly since we aren't being treated equally with instructors at other schools which are similar in size to Embry-Riddle."

"The workload at most other schools is about 12 credit hours of teaching per semester." At Rid-

See Tenure, page 3

Avion Staff Reporter

Who is Entertainment Security and what is their role during ERAU social activities?

In a recent interview, David "Hoss" Robertson, acting chief of security for Entertainment, answered questions about organizational policies and staff training.

Entertainment Security policy is designed to enforce all the regulations established by the University. Robertson noted, "These policies are supposed to be posted in the lobby of the U.C. before each event." Entertainment Security follows the same rules as the University's Security Department.

Since most events are limited exclusively to Embry-Riddle students, individuals are required to present ERAU identification upon entering.

Due to fire safety laws, Entertainment Security must also enforce regulations that restrict the number of people permitted to attend major events within the

During events, the group's primary purpose is to maintain order. Students are to follow University rules while attending these functions. Students are not permitted to physically damage property or bring alcoholic

they are allowed. The first time, University Security will handle the problem. Using alcohol as an example, the first time you are caught you will be asked to get rid of it, after the warning it will be the responsibil-

Security are invoked. However, Robertson, four others are deputized by University Security. They carry badges and are permitted to restrain and detain troublesome individuals. Only during large activities are members permitted to carry handcuffs.

Commented Robertson, "During major events University Security will carry handcuffs for the purpose of restraint and detainment. Nightsticks are not carried by anyone, but the students do carry flashlights, which in the dark may look like nightsticks, and you could use one as a nightstick if you had cause to, but they are mainly used as flashlights."

Being the eyes and ears for the official campus police, Entertainment security handles all but major occurrences. They may only strike someone in a purely defensive role, when their safety is threatened.

Volunteers patrol the facilities and insure order is maintained

beverages to these activities.

In the past, individuals were permitted to sit upon tables. However, several were damaged. As a result, Epicure now has the tables cleared before events and students are not permitted to utilize them during the event. Students are not restricted from having a good time or being rowdy and loud, as long as they do not irritate others.

Heckling a performer is permitted, as long as the entertainer can handle them. According to

University Security."

One job of the group is to clear the tables before an indoor event. Once the U.C. is ready, individuals receive position assignments to limit entry to one area. As students enter, each is checked for alcoholic beverages, which are prohibited at the function.

Throughout events, the volunteers patrol the facilities and insure that order is maintained. Students can leave through any of the exits throughout and

New generation Air Force trainer takes wing

Fairchild Republic's T-46A flies well but faces uncertain future, possible cancellation

By Brian Nicklas
Avion Staff Historian

On October 15, a new aircraft made its first flight at Edwards AFB, California. That new aircraft was the U.S. Air

Force/Fairchild T-46.

After lifting off the main runway at Edwards, Fairchild chief test pilot James R. Martinez flew the Development, Test and Evaluation aircraft for 72 minutes. Martinez stated after

the flight that "It's a very solid aircraft and flew quite well, everything performed as we expected." This first flight was made with gear extended and speeds were limited to 175 knots. The aircraft was flown two days later with the gear retracted and the speed on the new trainer was raised to 250 knots.

The next phases of the test program will expand the flight performance envelope to its design capability of 400 knots airspeed and 45,000 ft ceiling.

First in twenty-five years

The T-46 is manufactured in Farmingdale, New York and is the first new Air Force trainer in over twenty-five years. The Joint Air Force-Fairchild unit testing the T-46A for the next twenty-two months is the T-46 Combined Test Force (CTF) based at Edwards AFB and commanded by Lt. Col. Michael Edmondson.

Deputy Director of the CTF is Maj. Eric Hansen, the first Air Force pilot to fly the T-46. Hansen flew on the second flight of the aircraft, accompanying Fairchild's Martinez. Director of Flight Operations for Fairchild is Wendell Shawler while Wally Lawson is in charge of Flight Test Engineering. Air Force T-46A



U.S. Air Force photo

Technicians perform final checks to the Fairchild Republic T-46A trainer prior to its first flight.

Program Director is Col. Dalton Wirtzman.

Although many had foreseen the need for a new primary trainer for the Air Force several years ago, it was not until early 1980 that the Air Force began the search for a replacement for the T-37. The T-37, a Cessna product, has an average age of some 23 years.

Fairchild was selected as contractor for the Next Generation Trainer (NGT) over four other firms—Cessna, General Dynamics, Rockwell International and Vought.

Scale demonstrator

Fairchild did more than submit a paper proposal, as they helped prove their design with a flying 62-percent-scale manned demonstrator.

This demonstrator was built by the Ames Industrial Corporation, flown and tested by the Rutan Aircraft Factory during the fall

Tutors prove effective aid for study

By Judith Hendrickson
Avion Staff Reporter

Student-run tutoring programs at ERAU are alive and well. Both students and instructors appear pleased with the program results.

Peer tutors have proven to be an effective means for students to get the help desired in a specific course.

Math, Science, English, and aeronautics tutoring programs are all available to ERAU students.

The Writing Center (English tutoring) averages 500 tutees a trimester. Ann Magaha, in charge of the Center, says, "At institutions having an open admissions policy, these [tutoring] services are vital."

Students enrolled in HU 295, the Advanced Writers Workshop course, are the trained tutors for the Center. The Writing Center handles all courses involving writing.

The math and science tutor

See Tutor, page 3

See T-46, page 9

Editorial

Professional ads needed to insure school growth

Embry-Riddle: The Hardest of the Sky. That opinion, printed by *Time Magazine* several years ago, attracted many to this university.

Time used the quote as a sub-headline, giving readers the impression they had coined the phrase. Few noticed this phrase was taken from a statement made by a university representative.

The comparison of Embry-Riddle to a prestigious Ivy League institution was a smart recruiting move for the school. Embry-Riddle could not have purchased better advertising of its professional approach to aviation. Lately, however, they haven't even tried.

Advertisements placed by Embry-Riddle in national publications over the past few years have betrayed this professional image.

The "Night Solo" ad that can be seen in current issues of *Flying* magazine is an example of this betrayal. Stressing fantasy rather than professionalism, this apparition shows a student pilot on his first night solo against a kaledescope sky. The text of the ad is directed toward the naive high-school student, emphasizing the Aeronautical Science program. This may suffice to attract the prospective pilot candidate, but it falls far short of a professional, serious recruiting drive.

Throughout the aviation community, this university is known as a leader in aeronautical education. Indeed, mentioning the school's name to flight crews and airport personnel usually elicits favorable comments and sincere questions. A vast majority voice their admiration for the quality education and initial training provided by the ERAU staff. More often than not, the word most used to describe the university is *Professional*.

This current advertisement is disappointing, and possibly could be doing serious damage to what should be a vigorous recruitment effort. Growth in the Aeronautical Engineering and Computer Science degree programs will be necessary if the school is to prosper during the coming drought foreseen in college enrollment.

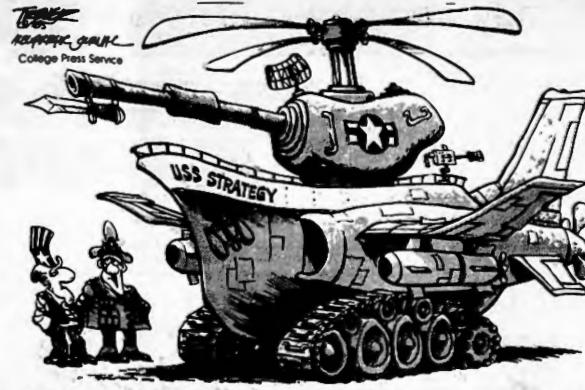
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Fortunately, this dilemma has captured the university's eye. Since Janurary, the aviation world has seen major alterations in parts of ERAU's advertising style. Forthcoming pamphlets and recruiting techniques appear to be geared not at ten-year-old dreamers, but towards the real market—the market that seeks the knowledge to do the job right—those aspiring to become *Professionals*.



"THE 'CANNON'? NO, NO, WE CALL IT THE 'STALLION'! BUT HOW DID YOU KNOW IT WAS DESIGNED BY THE JOINT CHIEFS? THAT'S SUPPOSED TO BE SECRET..."

Letters to the Editor

Special Thanks

Dear Father Morris:

We would like to take this opportunity to thank you and all of the students who have been contributing so generously to Halifax Urban Ministries.

The donations of food and clothing have helped us to continue helping those in need in the greater Daytona Beach area.

During the past months, the requests for emergency food have increased greatly. We could not continue to help in all of the emergency situations without the support of such people as yourself and the students at Embry-Riddle.

Thank you again for your generosity and caring.

Sincerely,
Kathleen Cooper

other side of the story?

The columnist of "A White Elephant" has a mathematics problem. A \$55,000 bus will not take 4800 students 8 trimesters to pay off — only one! In simpler words — one plus one does not equal eleven!

The bus refurbishing company in Orlando is being considered because regional and national bus manufacturers overwhelmingly recommended them due to their credible reputation. Many companies looked at before focus was placed on the Orlando firm.

If we decided to buy the bus, they may knock 15 percent off the price since it is a donation to our university.

Even if we bought the bus and decided later that we didn't want it, it could still be sold as it is because they didn't "shop around" and study the market.

Lets give credit where credit is due. The SGA is studying the market with upcoming feasibility and utilization studies and considerations of alternatives to the bus. Leo Vane Jr. and the SGA deserve a round of applause for their preliminary analysis of a bus on this campus.

The facts are in black and white. So get off your butt and get informed! There are things called representatives — and they don't bite.

Scott Cooper
Box 5593

Alternate Choices

To the Editor:

An apathetic lot! It seems to me that the writer of the z-ro bus editorial appearing in the October 30th issue of the Avion is

describing the results of the ERAU Running Club competing in Deland (see page 6). The Running Club has competed against most schools in Florida including the University of Florida, Florida State, the University of Miami, and the University of Jacksonville.

Scott Cooper
Box 5593

has no intercollegiate sports. However, the Avion carried an article in the October 16th issue (page 12) about ERAU Golf Team competing intercollegately. The very issue in which the pro/con bus editorials appeared carried results of the ERAU Running Club competing in Deland (see page 6). The Running Club has competed against most schools in Florida including the University of Florida, Florida State, the University of Miami, and the University of Jacksonville.

The team has also competed against several Georgia schools such as Georgia Tech. What about the men's basketball and flight teams? Don't they compete intercollegiately? Oh, I see, what I read about them in the Avion is just a figment of my imagination.

Since the school is not a member of the NCAA (this cost seemingly too great for the school), it is understandable why they do not receive the on-campus recognition that they should. This also means that the school offers no support to these teams.

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If we decided to buy the bus, they may knock 15 percent off the selling price as a donation to our university.

Even if we bought the bus and decided later that we didn't want it, we could sell it back at a higher value because privately owned coaches are usually better cared for. Of the people that took the bus, 90 percent said that while it was on campus, 90 percent were in favor of it. I didn't emphasize this heavily in my analysis.

Bethune Cookman bought a similar bus in the past and got knowing it, paid extra

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See CHOICE, page 3

Straight Facts

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Klyde Morris Classic

Wes Oleszewski

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GOOD MORNING, AND WELCOME TO PM-10... PHILOSOPHY FOR PILOTS!

CLIMB, AND MAINTAIN 8000... 8000, NOTHIN' TO IT...

...THESE GATS AREN'T AS CLOSE TO THE REAL THING AS THEY SAY...

...BUT I GUESS IF YOU LET YOUR IMAGINATION RUN AWAY A LITTLE YOU JUST MIGHT THINK YOU'RE REALLY FLYING...

WHAT? WHAT? WHAT?

WHAT?

WHAT?

WHAT?

WHAT?

I SORT OF EXPECTED THAT...

...I SORT OF EXPECTED THAT...

The week's staff: John Trombley, Rich Grey, Brian Nicklas, Ken Rossato

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Mr. Pro Bus claims the school

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A Division of the SGA

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The *Avion* is produced by a volunteer, student-journalist staff weekly throughout the academic year and bi-monthly throughout the summer. The *Avion* is funded through student government fees and advertising revenue. Correspondence may be addressed to: The *Avion*, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32014. Phone: (904) 252-5561 Ext. 102.

AP Associated Press

U.N. may condemn Soviets for Afghanistan invasion

By Jack Anderson
and Joseph Spear

WASHINGTON, D.C. — Incredible as it may seem, the U.N. General Assembly may be nudged off its diplomatic straddling and forced to condemn the Soviet Union's six year invasion of Afghanistan.

Doing the nudging is a doughty little U.N. panel, the Commission on Human Rights, whose first chairwoman was the late Eleanor Roosevelt. Last year, the American commissioners took a deep breath, graced the media with controversy and appointed a "reporter" to investigate human rights in Afganistan under the brutal Soviet occupation. Until this bold act, the United Nations had tried to avoid offending the Soviets by leaving all discussion of the butchery with the euphemism, "foreign troops in Afghanistan" — as if

there were any foreign troops besides the Red Army.

Needless to say, the Soviets bitterly opposed the appointment of a human-right broadsword, a distinguished Austrian professor whose previous U.N. investigations of human rights — in South Africa and Chile — were lastingly abominated by the Soviets.

Once he was assigned to sue the Afghan tragedy, of course, the Soviets promptly denounced him as a Nazi. Ermacora was unshaken by the attacks, however, and flew into Afghanistan, but he gathered a massive amount of evidence from the refugee camps in Pakistan. His first report was a tough indictment of the Soviets, but it drew little attention in either the media or the General Assembly. He said, it appears, "clearly moved by what he saw recently in hospitals on the Pak/Afghan border."

The cable reports that Ermacora's report will be a blockbuster. He intends to accuse the Soviets of genocide in Afghanistan. He will also charge that they have been moving entire families from one part of the country to another.

The cable reports that Ermacora believes that Soviet troops used terrible weapons in attacks on civilians, the forced destruction of tribal social structures, the forced

departure of a quarter of the population of traditional villages and ways of life. The movement of large numbers of displaced persons into the cities are the elements of genocide."

The Soviet propaganda machine has already described Ermacora's second report — even before it has been completed — as "cocked" in the sense of the C.I.A. In fact, no Western government would give Ermacora information, precisely to baffle charges of bias in his report. Prism, the permanent Commission on Human Rights, the General Assembly will now have to bite the bullet and vote on the Afghanistan situation. If it hopes to retain any shred of credibility, it will have to condemn the Soviet Union.

LOUIS PELZER

The Pentagon has quietly issued orders to more than 200,000 GIs stationed in West

Germany to keep a low profile. It's not to hide their American identity, one Defense Department official explained.

Yet apparently, soldiers have been wearing distinctive clothing — such as cowboy hats, big boots, or fancy jackets with their outfit's symbol on the back — that make them stick out as easy targets in a crowd.

IDENTITY CRISIS

The late author Truman Capote had trouble convincing authorities he was a real celebrity when he was researching his 1965 best seller, "In Cold Blood." He was, however, recognized as a film records. While working on the book about the savage murders of a wealthy Kansas wheat farmer, his wife and two children, Kansas authorities doubted his identity and refused to let him into the state.

Capote, at the time a renowned writer with the New Yorker magazine, had neglected to bring

along his press credentials. So his publisher at Random House asked the FBI to vouch for him. The FBI refused because no one in the bureau knew Capote nor could confirm his identity to the New York.

JAILHOUSE DAYDREAMS

Former Rep. Jim Jenkins, the South Carolina Democrat now doing time in a federal prison for his role in the Abscam scandal, is entertaining the Abscam idea of running for his old seat. He told us he's getting a "strong public run," and added in a quip, "Isn't that wild?" Wild or not, even from jail, Jenkins must be taken seriously.

He narrowly lost his re-election bid in 1980, even after he had been cleared of the Abscam felony, but Jenkins would be prohibited from voting for himself, since he is a convicted criminal.

SGA members voice concerns

Students encouraged to let representatives know their needs

Dear Students:

I was elected as Vice-President of the SGA to help represent your views and opinions in issues that face you. I am concerned about all the complaining that has gone on in the SGA organization and complaints toward the SGA.

I appreciate all views and opinions but as one of our representatives has said, "Talk is cheap." I stress that all students that have major concerns to please work with your representatives during their office hours to either resolve the problem or come up with alternatives.

I stress to you to have your concerns written out and also included should be alternatives that could be considered.

If you would like to place an issue on the agenda of a SAC meeting held every Tuesday night

I look forward to seeing more of you in our office to talk to me or our representatives. I also would suggest that you come to our meetings on Tuesday nights in the CPR at 6:00 p.m.

Jeff A. Kohlman
SGA Vice-President

To my fellow students:

I have been a dorm Representative to the Student Government Association (SGA) for a little more than a month now. During this period, I have seen a lot of the complaints thrown at SGA by the students. In other words, there are many students who have significant complaints about the SGA, but are not taking the initiative to justify them.

First of all, we as Representatives are required to keep office hours in the SGA office a minimum of five hours a week.

put in much more

representative of your SGA in order to make your point count. If you don't, then you will have nothing more than one opinion amidst a plague of others; which will result in nothing more than a very ineffective SGA.

For the students residing in on-campus dorms, we do the minutes and other important information which I feel is important to you, on a weekly basis. Take the little time required to read this information, and benefit from it.

If you choose not to inform yourself on both sides of an issue, then you are only making yourself look ignorant, and wasting the time of those who do know the full story. The SGA is not here to fight the students and waste their money — it is alleged. The SGA is only as effective as the students want it to be.

Take the opportunity to better inform yourself before drawing on insignificant conclusion.

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Dennis J. Raposa Jr.
SGA Representative

as many vans as they need. These vans could also double as taxis between the apartment complexes. This way they benefit a larger proportion of the students not just the ones.

As far as satisfying the students, I think they will rally behind the school when they want to, not when they have a new bus. Perhaps more support from the school towards the existing inter-collegiate teams would bring these teams recognition and support from the student body.

Brian Glasscock
V.P. Running Club

assigned to handle their heavy flow of students. All beginning level chemistry, math, and physics students can find help in utilizing it constantly.

Dr. Elliott Jacobs, in charge of math/science tutoring, says that more tutors will have to be

available to help the heavy flow of students. All beginning level chemistry, math, and physics students can find help in utilizing it constantly.

Any aerodynamics student who wants help in AS 150, AS 230, AS 305, and AS 356 should contact

Dana Middlekauff in her office (H-123) and a student tutor will be assigned. The tutors utilized are students of AS 404, Principles of Instruction.

Aside from these larger tutoring programs, there are student tutors available for almost any course offered at ERAU.

There are, however, other signs that ERAU is not as bad as it appears. Only 28 percent of the college teachers, for example, felt they had limited opportunities for professional advancement, and only 21 percent said they would not go into teaching if they could start their careers over.

CHOICE

(continued from page 2)

forcing them to cover all their own costs even though these teams bring Embry-Riddle recognition throughout the community.

So how does this relate to buying a bus? The editorial claims the bus shall be a "unifying force" behind the school. I can see the Avion headline now: ERAU Buys Rolls Over Florida State's Van. I think not. Even as a "tool to unify students" it shall fail. How does having a bus make

students want to go to more events. Perhaps a Gulfstream III might do the trick.

I won't deny that there is a transportation problem at this school, there is one. There are many students who believe it or not SGA. The one that seems best to me is taking the \$55,000 and purchasing two or three 12-seat vans.

While not being as luxurious as an old Greyhound, it would be much cheaper to buy, operate, and maintain — even to drive a van. Clubs could then just use

as many vans as they need. These vans could also double as taxis between the apartment complexes. This way they benefit a larger proportion of the students not just the ones.

As far as satisfying the students, I think they will rally behind the school when they want to, not when they have a new bus. Perhaps more support from the school towards the existing inter-collegiate teams would bring these teams recognition and support from the student body.

Brian Glasscock
V.P. Running Club

assigned to handle their heavy flow of students. All beginning level chemistry, math, and physics students can find help in utilizing it constantly.

Any aerodynamics student who wants help in AS 150, AS 230, AS 305, and AS 356 should contact

Dana Middlekauff in her office (H-123) and a student tutor will be assigned. The tutors utilized are students of AS 404, Principles of Instruction.

Aside from these larger tutoring programs, there are student tutors available for almost any course offered at ERAU.

Tenure

(continued from page 1)

program is successful as well. After the tutoring service was started in fall 1984, 106 students have utilized it constantly.

Dr. Elliott Jacobs, in charge of math/science tutoring, says that more tutors will have to be

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Aside from these larger tutoring programs, there are student tutors available for almost any course offered at ERAU.

There are, however, other signs that ERAU is not as bad as it appears. Only 28 percent of the college teachers, for example, felt they had limited opportunities for professional advancement, and only 21 percent said they would not go into teaching if they could start their careers over.

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PASTA, BEER!**

11 a.m. - midnight



could be considered.

If you would like to place an issue on the agenda of a SAC meeting held every Tuesday night at 6:00 p.m., please submit a written request to the SGA office by Monday at 12:00 p.m. We will be happy to listen to your concerns at anytime.

CHOICE

(continued from page 2)

forcing them to cover all there own costs even though these teams bring Embry-Riddle recognition throughout the community.

So how does this relate to buying a bus? The editorial claims the bus shall be a "unifying force" behind the school. I can see the Avion headlines now: ERAU Bus Rolls Over Florida State's Van. I think not. Even as a "tool to unify students" it shall fail. How does having a bus make

First of all, we as representatives are required to keep office hours in the SGA office a minimum of five hours a week. Many of us put in much more time, including myself. During this time it is your responsibility as a paying, active student of this university to voice your complaints.

alleged. The SGA is only as effective as the students want it to be.

Take the opportunity to better inform yourself before drawing on insignificant conclusion.

Dennis J. Raposa Jr.
SGA Representative

students want to go to more events. Perhaps a Gulfstream III might do the trick.

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Robert Glasscock
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PIZZA!**
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Beer for \$8.95 !!!
(one coupon per PIZZA...)

Rob Enz and Joe Ricciardi captured the Best Duo Award Saturday night. The pair amused

the audience with their nerd impersonations. They were only one of many in costume.

Avion Photo by Steve Cagle

Tutor

(continued from page 1)

program is successful as well. After the tutoring service was moved to room A-106, students have utilized it constantly.

Dr. Elliott Jacobs, in charge of math/science tutoring, says that more tutors will have to be

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Tenure

(continued from page 1)

die) instructors are required to teach 15 credit hours each trimester," noted Brown.

Nationwide, less than half of the instructors polled thought their salaries were good to excellent.

Brown felt that ERAU administration needs to explore different avenues of funding including endowments from major businesses and alumni donations. In doing this, salaries could be increased without having to raise tuition to excessive levels.

There are, however, other signs in the study that suggest that morale is not as bad as it appears. Only 28 percent of the college teachers, for example, felt they had limited opportunities for professional advancement, and only 21 percent said they would not go into teaching if they could start their careers over.

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event to keep the men of the green and gold busy. The week was first of all Greek Week. The competition was tough but Lambda Chi achieved the ranking of 3rd.

On Saturday while part of the fraternity enjoyed the Greek Week Toga Party, some of the other members of the fraternity enjoyed the rocking sounds of

"get ready for the ride of your life."

As time for the ritual gets closer, the spirit of fraternity can be seen in all the Brothers. If you have ever wondered what the word Fraternity means come by W-306 at 7:30 p.m. on a Monday night or just ask one of our members in a green and gold jersey.

Jeyaseelan spoke at the CFC meeting once again. He began by talking about the power that we as Christians have through Christ Jesus. His message systematically touched on the principles of true Christianity and the applications of those principles in our everyday lives.

Now that the month of November is upon us, CFC is

members have been looking forward to this date since the beginning of the tri-mester. Tickets will soon be on sale at the price of \$3.00 per ticket. They can be purchased by contacting myself at Box 6585, Dawn Keith (Box 6154), or Eugene La Koo (Box 2632).

We urge everyone to come to the concert. This is the first time

we will be performing. I hope that as far as musicianship goes, there aren't too many bands, Christian or secular, that are better. Don't take my word for it though, show up at the concert and see for yourself.

The doors to the University Center/Concert Hall will open at 8:30 p.m. that Thursday. Once the band takes the stage, the re-

hearing more and more about the concert. We fully expect the concert to sell-out, so purchase your ticket while there's still time left.

The next regular meeting of the Christian Fellowship Club will happen on Saturday, November 9 at 6 p.m. in the CPR (Common Purpose Room).

More Clubs page 11

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- Henrik Ibsen -

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Halloween's roots explained by ancient, weird religious events

By John Tromby
Avion Staff Reporter

Halloween is viewed by some Christian orthodoxy as a form of idolatry in which Satan, the angel of Death, is worshipped. The church believes that by not participating in the pagan "festival" the Christians will be strengthened by a greater understanding of the spiritual roots and history of the anti-Christian fest.

The Celts people believed that from death came life. It was believed that since the Fall season was cold and dark, that's when death and decay begins. So that everything would come alive again, the Celts worshipped the Lord of Death, Samhain.

On October 31, and into the day of November 1, the Celts celebrated the beginning of a "New Year." At this festival the Lord Samhain was honored.

On New Year's Eve, the Druids instructed the people to extinguish all hearth fires and lights. Next a huge bonfire was built from the bows of the Holy Oak. Everyone would gather around and throw some offering into the fire. Such things as crops, animals, and even people

were burned.

If Samhain was pleased with the offerings he would allow the sun to rise again the next day.

That's why the tradition of imitating the souls.

Furthermore, if one submitted to the dialogue of "Trick or Treat," he was not giving candy to children but actually making offerings to Satan himself. The children were unknowingly serving Satan by imitating the dead.

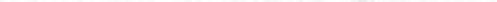
In the earlier days of the Celtic church (which was strictly organized by the Holy Father), it attempted to continue the pagan New Year by establishing the Feast of All Saints. This feast was held in the same day as the New Year festival. By custom the faithful Christians were to attend this Vigil Service in celebration of the Holy Eucharist.

From the orthodox point of view, the Western Church failed in its attempt to supplement entirely this pagan festival with the feast of All Saints.

From all of this grew what we know today as Halloween. But the word Hallowe'en was actually adopted from Old English.

From all of this grew what we know today as Hallowe'en. But the word Hallowe'en was actually adopted from Old English meaning All Hallow' e'en or Eve of Commemorating those who were hallowed (or sanctified). Hallowe'en now is more of a fun time to go out with friends.

BLOOM COUNTY



FAA Written Exam Schedules

Embry-Riddle Aeronautical University will administer FAA Pilot Written Examinations on the following dates and times:

Date	Time	Place
Nov. 5, 12, & 26	Tuesday, 1330	H-131, GRW Complex
November 23	Saturday, 0830	H-113, GRW Complex

Students intending to take an FAA Pilot Written Examination are required to sign up in office D-200 or call extension 1307 prior to examination.

At the time of the examination, each student must present a receipt for pilot exam fee, validated by the Cashier's Office; a Written Authorization Form signed by an appropriate Aeronautical Science Division Ground Instructor, or the failed results of a previous FAA Written Examination and present as personal identification an Airman Certificate, driver's license, or other official document.

NOTICES

December Graduates

December graduates: The Senior Class Council needs volunteers to help with fundraising. If you can help, please stop in the Student Activities office. Your help in this effort will be greatly appreciated.

Divine Love Lecture

Free Public Christian Lecture entitled — Divine Love: The Meaning of Life — by Mr. Jack H. Thornton C.S., member of the Christian Science Bd. of Lectureship, Boston, Mass. The lecture will happen on Monday, November 11 at 8 p.m. at the Theater Center, Daytona Beach Community College Campus. Sponsored by: First Church of Christ, Scientist, Daytona Beach.

Spring Graduates

Students anticipating Spring '86 graduation: We suggest you submit your grad application for a preliminary evaluation prior to Spring '86 registration.

Air Force Two Year Program

AFROTC is looking for applicants for the Two Year Professional Officer Course Program. If you will have at least four trimesters remaining (not counting summers) as of January 1st, you may apply. If you choose to apply, now is the time to do it because of the time required to process your application. You must pass the Air Force Officer Qualifying Test, a physical examination and then complete a six week field training session during the coming summer prior to enrollment in the Professional Officer Course. We are looking for people who are interested in a Pilot, Navigator, Missile, Engineer and Computer Science career fields. If you would like to find out more, please stop by the detachment and ask us about the program.

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Orbital Inclinations



Rocket pioneer expresses wish

[Editors note: The following text was written by Professor Hermann Oberth of Germany last week shortly before the launch of Challenger on the D-1 German Spacelab mission. Oberth was instrumental in laying the foundation that has made spacefaring possible.]

My earliest goals have remained unchanged. They are as much a part of my dreams of today, at age 91, as they were when I began my work: "To make available for life every place where life is possible; to make inhabitable all worlds as yet uninhabitable and all life purposeful."

That quest has been the goal of NASA throughout the years since it was first founded. These were the goals and dreams of my fellow scientists, Konstantin Tsiolkovski and Robert Goddard, and I speak in their behalf.

These are the dreams of the people of our world in all centuries past. They are the aspirations and longings of those living today. They are the hopes of today's youth in all corners of our world as they dream of the world they are to inherit.

It is this generation of Mankind who has the choice of which direction it will go; outward in peaceful explorations of the boundless ends of Space, or perish in stagnation of mistrust, despair and wasted energies.

My own dreams as a youth, and my work as an adult, became partially fulfilled when the crew of Apollo 11 set foot on our Moon, for they had proven Man could venture into the realms of other distant bodies and return unscathed and enriched in knowledge. It was my privilege to have stood here at Cape Kennedy, with Werner von Braun, during that Epoch Launch. It is an honor and privilege for me to return to this site once more, to be present for the launch of the D-1 Shuttle we are all about to witness.

I wish the crew of the D-1 God-speed and safe journey. May the thunder of its liftoff symbolize the voice of our own worldwide thrust toward achieving new hopes and new promise for all of today's youth everywhere. In every nation: for they wait anxious for our decision. What greater present can we give them? What greater inheritance can we leave behind for those who are not yet born but who will inherit this planet we have named Earth?

It is not important, in the end, who became the

explorations of man's dreams of Space, or perished in stagnation of mistrust, despair and wasted energies.

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It is not important, in the end, who became the first to chart where Mankind could fly in orbit around our world; what is vital is to have our world's peoples and leaders pulling together in peaceful co-existence, respecting one another's rights, so there will never be the day in history when someone becomes the last to fly beyond our planet.

H. Oberth

Shuttle heads homeward

Around the clock mission produces valuable results

By Jim Banke

The Space Shuttle *Challenger* lifted off last Wednesday heading for space with five Americans, two Germans, one Dutchman, and a plethora of frog larvae.

For the second launch in a row, NASA was able to get a Spacelab off the pad and into orbit in just a few hours. A problem in fuel cell 1 was the only concern as *Challenger* thundered off the pad. A coolant valve in the portion of the fuel cell stack which controls the incorporation of water into the hydrogen system was not working properly.

If the fuel cell then failed in orbit, some of the Spacelab experiments would not have been possible. However, out in orbit the fuel cell behaved well, staying within the normal limits and has not been a concern since launch day.

Last Wednesday's noon launch was witnessed at the Kennedy Space Center by a host of VIPs, including Hermann Oberth. Oberth is a pioneer in spaceflight, mostly responsible for the development of rocketry in Germany.

Through his work, men such as Werner von Braun went on to put America on the moon. A true genius, Oberth is in this country searching for exhibits to place in his own museum back in Germany.

Since launch day, a record crew of eight have worked around the clock aboard the orbiter on a dedicated German Spacelab mission.

Although there was discussion

amongst Mission Control in Houston and the German Space Operations Center outside Munich to extend the mission one day, an insufficient amount of cryogenic consumables will keep the scheduled landing time of 12:44 p.m. EST today.

Highlights of the seven-day mission included the operation of the Vestibular Sled — a seat in which a test subject can be moved back and forth lengthwise along rails on the "floor" of the pressurized Spacelab module. The sled allows a study of the functional organization in the human body. Following an extensive work-out in the first day of the mission, there were no reports of motion sickness or Space Adaptation Syndrome.

Other Spacelab experiments involved materials processing and life sciences experiments involving the observation of the effect of weightlessness on frog larvae growth.

Minor problems aboard the orbiter made news ... over week.

Among the little things: hair cropped off in a family sensor which measured fine movements continually go off. Turning off the sensor solved the problem.

An air leak was also discovered in the pressurized Spacelab module but was not serious enough to warrant an early close to the mission.

Landing is now scheduled for today (Wednesday) at 12:44 p.m. EST at Edwards Air Force Base in California.



The largest crew to fly in space stands with their mission patch. They are (from left to right) Reinhard Furrer, Hans-Dieter Duhm, James Buchli, and Henry Hartfield. (Back row) Steven Nagel, Gisela Blauford, Ernst Messerschmid, and Steffen Ockels.

The Kennedy Space Center for the launch of *Atlantis* on November 26 around 7:30 p.m. — marking the second night launch of a Space Shuttle. *Atlantis* will be moved tomorrow (Thursday) at midnight from the Orbital Processing Facility to the Vehicle Assembly Building.

In the VAB, *Atlantis* will be mated to its solid rocket motor/external tank vehicle, and then roll out to the pad.

The orbiter *Enterprise*, which has been on display near the VAB for several weeks, will be flown on top of NASA's 747 November 16, to Dulles field in Virginia.

It will be put on permanent display at the National Air and Space Museum annex. Embry-Riddle students wishing to see the historic vehicle have a short ten days to do so.



German rocket pioneer Hermann Oberth looks on as *Challenger* lifts off.

Nosewheel steering to be tried on returning Shuttle mission

National Aeronautics and Space Administration

to steer an orbiter during landing rollout, sometimes causing excess wear and tire wear.

After *Challenger*'s nosewheel touches the ground, Commander Hartsfield can depress the right or left rudder pedal, signaling the computer to direct a hydraulic actuator to turn the nosewheel and the spacecraft along the centerline.

As the orbiter slows to 115 mph, Hartsfield will steer the vehicle off the centerline about 20 or 30 feet, and then back onto the centerline before *Challenger* comes to a complete halt.

The development of tests to

perfect the new system came as a result of excessive tire and brake wear at the landing of mission ST-1D last April. During that landing at the Kennedy Space Center, *Discovery*'s nosewheel locked and an inboard tire blew out on the right main landing gear during rollout.

Since that less than perfect landing, Space Shuttle missions have landed at Edwards.

If all goes well with the tests on this and the November mission, landings at KSC will return with the next flight of *Columbia* this December.

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KENNEDY SPACE CENTER, Fla. — *Challenger* and her German Spacelab cargo is scheduled to land today (Wednesday) at 12:44 p.m. EST at Edwards Air Force Base in California. The landing will mark the first flight test of a new nosewheel steering system.

The test is one of a series to develop nosewheel steering for all Shuttle orbiters. Currently, right and left wheel brakes are applied

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The nosewheel steering box and actuator is installed in *Challenger* before flight test

James A. Scott, Jr.

Attorney at Law

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Pizza Delivery

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or discounts

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'Out-of-this-world' eating in new space age kitchen

McDonnell Douglas

HUNTINGTON BEACH, Calif. — McDonnell Douglas engineers are adapting everyday kitchen appliances for a new home and work complex unlike any on Earth — NASA's manned space station, scheduled to be orbit by the early 1990s.

Last April, NASA's Johnson Space Center in Houston awarded McDonnell Douglas Astronautics Company a \$1.5 million contract for preliminary design of the orbiting facility, which includes the design of a spacious galley. Kitchen fixtures Honeywell, IBM, RCA and Lockheed are major members of the McDonnell Douglas space station team.

Under the 21-month contract, engineers will design a complete space station kitchen that will store a 90-day food supply for six or seven people. McDonnell Douglas also will build test models of the appliances.

The kitchen will contain an

oven, refrigerator, freezer, dishwasher, trash compactor, food and trash storage and an automated inventory control system.

Although similar to appliances used on Earth, the space station kitchen equipment must operate properly in the weightlessness of space. Also, it must be compact and highly efficient to best use the limited weight and power supplies and storage volumes available.

For example, instead of having both a microwave and a convection oven, a single unit may perform both functions. Another space-saving feature: the trash compactor will reduce trash one-tenth its original volume, five times less than conventional models. Water used in the dishwasher will be recycled, purified and reused.

The kitchen also will have an automated system to keep track of supplies. One option being considered is the use of bar codes — the electronic scanning system used by supermarkets to record purchases. As in the markets, a bar code will be put on each food item. When a crew member removes it from the shelf or refrigerator, the system will automatically deduct it from the inventory.

At the end of the mission, NASA will have a ready-made grocery list of items to send up on the next shuttle trip.

Initially, meals on the space station will resemble those on Earth. Crew members will eat from a table with knives and forks, clean up afterward. Later, parts of the galley may be automated so astronauts will be able to order a meal by pressing buttons.

As part of the kitchen study, McDonnell Douglas is working with its teammate Lockheed, which is studying the type of food that will be eaten on the station. The primary objective is to make certain that the food tastes good and looks appealing even after being prepared in this manner. At the beginning of each 90-day stay, the crew will eat some fresh food. During the rest of the mission however, the food will be of the frozen, canned or freeze-dried variety.



This artist's rendering shows a McDonnell Douglas concept of the galley for NASA's manned space station. At right, an astronaut, held in place by restraints, sits at a work station, while another crew member prepares a

meal. The galley will be located in one of two space station modules where crew members will live and work. Under a NASA contract, McDonnell Douglas will build models of appliances such as an oven or dishwasher.



Forward into the past

SETP Kincheloe award given to AV-8B test pilot William Lowe

McDonnell Douglas

ST. LOUIS, MO — McDonnell Douglas test pilot William Lowe has won the Iven C. Kincheloe Award for outstanding professional accomplishment in flight testing.

The award, named after the Air Force captain killed in 1958 during a test flight, is given annually to a test pilot or group of test pilots by the Society of Experimental Test Pilots.

Lowe's objective in his most recent test flights was to define the performance and handling limits of the AV-8B so that other pilots would know how far the plane can be pushed.

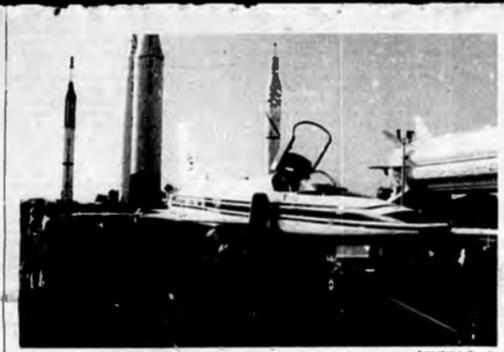
While testing the Harrier,

Lowe forced the aircraft out of control and into a spin by ini-



McDonnell Douglas photo

Society for Experimental Test Pilots Iven Kincheloe award



Forward into the past...

A mock up of NASA's revolutionary X-29 week at Spaceport USA and has been touring Grumman plants throughout the nation.

T-46

(continued from page 1)

of 1981. This certainly helped influence the Pentagon's decision.

Expensive as this may have been, it did prove many qualities of the design. In addition, over 1,000 hours of wind tunnel time were spent, with a like number spent with radio-control models and wind tunnel tests.

In July of 1982, the NGT contract was awarded to Fairchild Republic with the Air Force designation T-46A. Since that time Fairchild has tested more tunnel models, tested the crew escape system (using a Weber ACES II zero-zero ejection seat)

and planned the support and repair operations for when the first aircraft enters service.

Although Fairchild Republic President John Sandford remarked upon the occasion of the first flight that "all of us at Fairchild Republic see this as the culmination of a lot of hard work, and the result of many years of work by all of the T-46A contractors," this statement may not be totally true. Even with the successful flight of the trainer, there is concern that the program might be canceled. However, because the T-46 can take off vertically in very short distances, it can be based on short strips of road or runway near from lines and res-

kate. This includes the T-46.

The Air Force is looking at alternatives to the T-46, and holding both national and international competitions. Re-vamping the T-37 is one proposal, giving the "Tweet" new wings, engines and a new cockpit. Also looked at is the Beech T-34C as used by the U.S. Army's 1st Cavalry Division. However, the Navy's T-45 Goshawk (now with the Embraer 312 Tucano) and some sources cite a derivative of the also-controversial Northrop F-20 Tigershark.

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Aeron photo by Brian Nichols

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Although Fairchild Republic President John Sandford remarked upon the occasion of the first flight that "all of us at Fairchild Republic see this as the culmination of a lot of hard work, and this event is the start of ten years or more of the T-46A coming out of the factory at Farmingdale," this statement may not be totally true. Even with the successful flight of the trainer, there is concern that the program might be canceled. With Congress looking to cut defense funds in all areas, new programs come close to the

knife. This includes the T-46.

The Air Force is looking at alternatives to the T-46, and looking both nationally and internationally. Re-vamping the T-37 is one proposal, giving the "Tweet" new wings, engines and a new cockpit. Also looked at are the Beech T-34C as used by the U.S. Navy, the British Aerospace Hawk (soon with the Navy as the T-45 Goshawk), the Embraer 312 Tucano and some sources cite a derivative of the also-controversial Northrop F-20 Tigershark.

While testing the Harrier, Lowe forced the aircraft out of control and into a spin by increasing the plane's angle of attack, where the nose is pitched upward during forward flight. Often this maneuver causes the engine to stall.

The AV-8B Harrier II is a vertical/short takeoff and landing jet. It is derived from the AV-8A Harrier made by British Aerospace. Three U.S. Marine Corps squadrons fly the AV-8B for close air support. Because the AV-8B can take off vertically or in very short distances, it can be based on short strips of road or runway near front lines and res-

Society for Experimental Test Pilots Iven Kincheloe award was given to William Lowe for his work on flying the AV-8B pond quickly to request for close air support.

Lowe, who has logged over 2,000 flight hours as a test pilot, says depth of experience is a prerequisite for this type of testing. Since joining McDonnell Aircraft Company in 1972, he has test flown the company's F-4 Phantom II, F-15 Eagle, F/A-18 Hornet along with the AV-8B.

Three years ago Lowe made a vertical landing in the AV-8B, after taking his hands off the controls while hovering 40 feet above the ground, to demonstrate how well the aircraft's autopilot works. Lowe's name is the 58th to appear on the Kincheloe trophy. Previous winners include military and civilian test pilots and astronauts. Now located in Lancaster, Calif., the Society of Experimental Test Pilots was established at Edwards AFB in 1956. The Society has 1,800 members worldwide.

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