

9-21-1988

## Avion 1988-09-21

Embry-Riddle Aeronautical University

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Space Program poll says America should advance program or maintain same level of activity. See graphic, page 15.

New Denver-Stapleton airport to begin construction is largest aerodrome

page 6

Dodgers lead National League West by nine games ahead of Astros

page 10

# AVION

An Award-Winning College Newspaper



Volume 60, Issue 1

Embry-Riddle Aeronautical University, Daytona Beach, Florida

September 21, 1988

## August graduation permanently cut from calendar

by Phyllis A. Salmons  
Avion News Editor

Beginning in 1989, Embry-Riddle Aeronautical University will hold only two graduation ceremonies a year. The graduating class of August 1988 were the last Embry-Riddle graduates to ever participate in an August commencement. This is the case at the Prescott campus as well as in Daytona Beach.

The decision to change the academic calendar to reflect the new policy was made nearly two years ago. According to university administrators, the reason for the removal of the August ceremony is to save thousands of dollars.

Summer graduation is typically held in Peabody Auditorium which must be rented and with many associated costs. For instance, police and fire assistance and additional workers are needed to prepare for the ceremony. From Embry-Riddle, there are the employees of Academic Evaluations, Safety, and Physical Plant that must be paid overtime for working on Saturday.

Other costs associated with graduation are those of invitations, plaques, travel expenses, and receptions.

"Many universities have only one ceremony a year," said Norman Clark, University Registrar, "although most have two. When we converted the academic calendar to the semester system, it was appropriate to change to a more traditional number of ceremonies."

It should be noted that the University will continue to graduate the same number of students as before. Transcripts will reflect completion of requirements over the summer even though the student has not participated in commencement exercises.

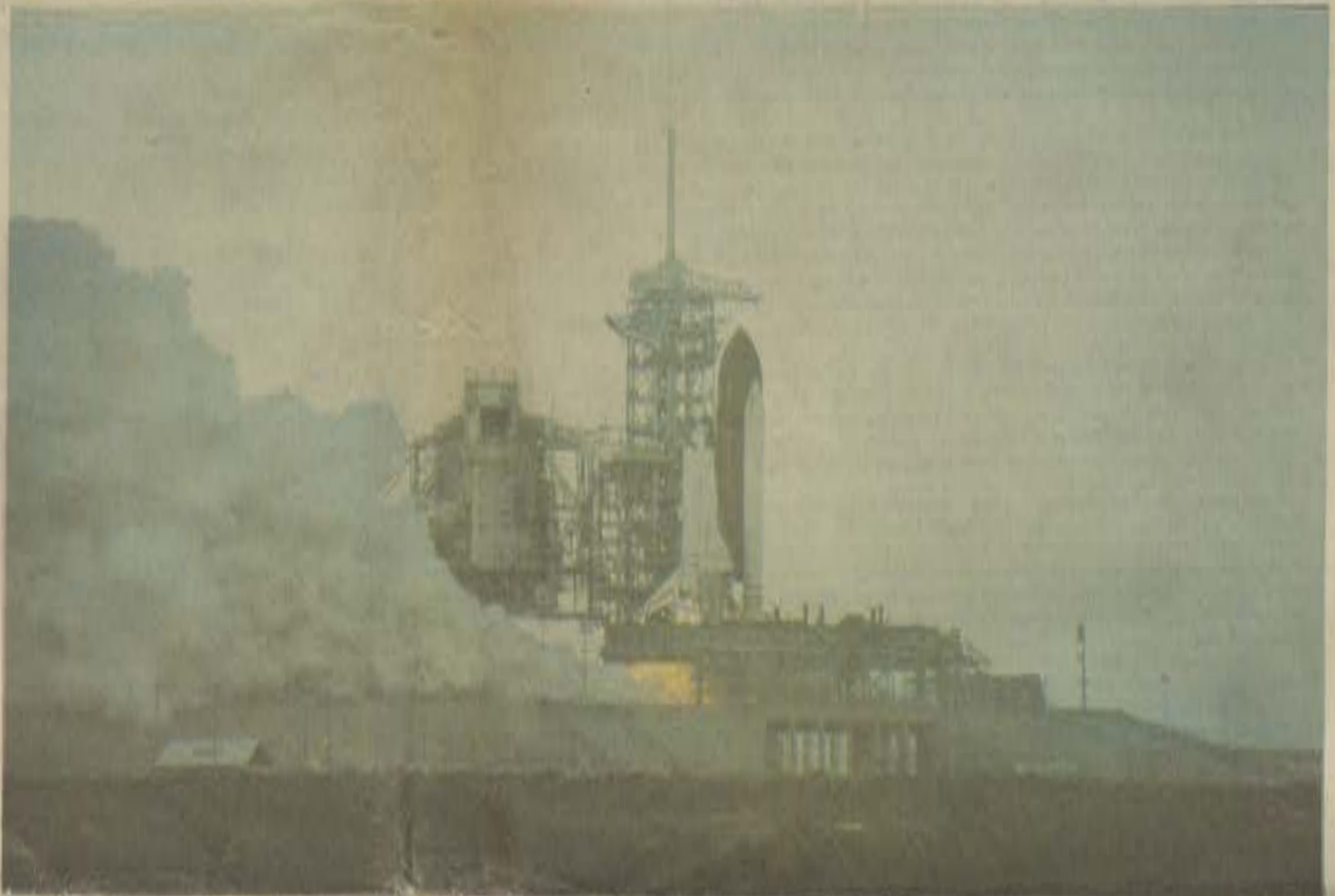
Those students who complete degree requirements in the summer may attend the December graduation ceremony, or in some cases petition to participate in the April ceremony and complete course work over the summer.

Students most likely to be affected by the absence of an August ceremony are those who want to participate in a commencement but will be physically unable to come to a December ceremony. For instance, foreign students are required to leave the country within 60 days of having completed their degree. Also, some students may have to report for military duty shortly after completing degree requirements in the summer.

These students may petition to attend the April ceremony as long as they are within 12 credits of graduating and are pre-registered for those classes in the summer terms. Students with flight courses remaining must, however, be enrolled in their last remaining flight course to be granted permission to participate in an early ceremony.

Dr. Luther Reisbig, Vice Chancellor of the Daytona Beach campus, said that "any reasonable request" for attendance of an earlier ceremony will be given consideration. It is felt that eventually the April and December commencement ceremonies will be roughly even.

Students who expect to finish degree requirements in 1989 should request a transcript evaluation as soon as possible. It is best to be completely aware of remaining course work necessary to ensure completion of requirements as scheduled.



### A New Hope...

The Space Shuttle *Discovery* successfully tested the main engines in the recent Flight Readiness Firing. The firing had a few minor problems, however, all major systems checked out. In preparation for launch, astronaut Egress and Simulator

Training was completed last week. The launch of mission STS-26, the first manned U.S. launch since the *Challenger* accident, has been planned for lift off at 9:59am EST on Thursday, September 29. For viewing tips, see related article on page 15.

## ERAU professor Phelps involved with lightning research project at Kennedy

by Phyllis A. Salmons  
Avion News Editor

Dr. Christopher Phelps of the Mathematics and Physical Science Department was contracted by NASA during the summer of 1988 to participate in the Rocket Triggered Lightning Program (RTL) at Kennedy Space Center.

The program, a space age high-tech version of Ben Franklin's key on a kite string, entails launching three-foot-tall solid fueled rockets into a thunderstorm to an altitude of 3000 feet, trailing a wire to the ground. Data is collected by lightning investigators at the launch control site and at nearby field locations. There is capability to launch up to a dozen rockets from each pad in a single thunderstorm, depending on the storm's lightning potential.

The lightning research program grew out of NASA's desire to improve lightning protection systems for KSC facilities and space launch vehicles. This objective continues with an additional goal of improving lightning forecasting.

Eventual civil applications of the Rocket Triggered Lightning Program may include earlier and more precise lightning warnings, lightning avoidance by aircraft, and the development of lightning protection systems that would preclude power outages and loss of communications.

The RTL is in its sixth summer at Kennedy Space Center. A new feature of the 1988 season is a tethered balloon 1500 feet in the air. The tethered balloon resembles a blimp, is 85 feet long, 25 feet in diameter, and holds 20,000 cubic feet of helium.

Suspended from the balloon is an instrumented lightning strike object at an altitude of 500 feet. The ultimate goal is to develop a set of data that will delineate the characteristics of the lightning strike

potential in three environments: over land, over water, and in the air.

Also suspended from the balloon is an airborne electric field meter. The instrument was provided by the University of Mississippi and is being operated by Embry-Riddle Aeronautical University. This device will monitor the electric field at an altitude of 700 feet.

amplified and telemetered to a receiver on the ground.

The typical ground-based field meter consists of several sensors arranged in a circular pattern. A rotating slotted disc is mounted just above these sensors. In operation, the slotted disc alternately covers (shields) and exposes the sensors to the electric field. This results in charge fluctuations that are proportional to the field strength, as with the airborne field meter. These devices are often called "field mills" because of the windmill-like rotator.

Dr. Phelps' objective was specifically to coordinate the field mill device data with other measurements being made. He observed electric field values as high as 50 kV/m at the 700 ft level. The limited data acquired this season indicate that fields in excess of 15 kV/m can exist for periods of the order of 10 minutes at 700 ft, while fields at the ground are 1 kV/m or less.

This data suggests that knowledge of the electric field above the corona-induced space charge layer may be critical in assessing the potential for triggered lightning.

Dr. Phelps' background includes a dissertation and field study in lightning research. Phelps earned his Ph.D from the State University of New York at Albany, where his studies involved experimental laboratory work on electrical discharges. The title of his doctoral dissertation is *A Possible Effect of Lightning Initiation of Thunder Cloud Precipitation Development*. After having completed his doctorate, Phelps spent two years in South Africa studying optical emissions of lightning.

Phelps will present the findings of the summer project at the December convention of the American Geophysical Union in San Francisco. He will also submit a final report to NASA near the end of this month.

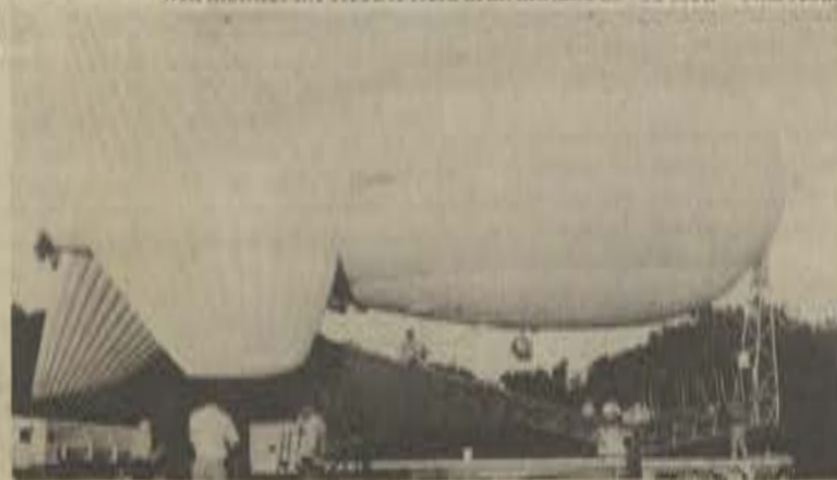


photo by Richard Clark

A new feature of the 1988 season is a tethered balloon resembling a blimp measuring 85 feet long, 25 feet in diameter and holds 20,000 cubic feet of helium.

At this altitude, the instrument is above the space charge layer created near the ground during disturbed weather. Since the space charge layer distorts the electric field measured on the ground, the relationship between airborne and ground-based electric field measurements is of great interest.

The airborne field meter consists of two aluminum spheres attached to a rotating, non-conducting, horizontal shaft. An electric field in the region occupied by the instrument causes differential induced charges on the spheres, which alternate in polarity every half turn of the shaft. These charge fluctuations, which are proportional to the field strength, are



photo by Peter Gilson

### The Money's Down...

Tiffany Tokar spins seven or bust on Lambda Chi Alpha's Monte Carlo Night.

Inside the Avion this week

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**Trivia:** In the movie *Casablanca*, Richard Blaine (Bogart) actually said "You played it for her, you can play it for me. Play it, Sam. Play it."



Editorial

# The textbook shortage: How could this happen?

"The primary mission of the campus bookstore is to supply you with textbooks and educational materials, in numbers and on schedules suggested by the faculty. We are an academic resource."

So states a paragraph in *The Bookstore Bugle*, a flyer placed in student mailboxes at the beginning of the term. The flyer also says that *The Bookstore Bugle* is "A chance for your campus bookstore to toot its own horn". Right now, it sure is playing a sad song.

During the first two weeks of the Fall term of 1988, the Daytona Beach campus of Embry-Riddle has seen a severe shortage of textbooks in virtually every discipline on campus. The problem appears to be the most severe in courses with large freshmen enrollments, but is not restricted to that group. Books are not available in graduate courses or even in courses requiring Embry-Riddle produced manuals.

Entering the third week of classes, some students are still without books. Naturally, the primary concern should be the predicament of the student. Many students are behind in their courses due to this comedy (tragedy?) of errors.

The *Avion* has spoken with quite a number of people: students, faculty, department chairmen, library personnel, and bookstore representatives on and off-campus, trying to obtain an answer to the question: "How could this happen?"

A bookstore spokesperson referred to "over booking" and that the projections missed quotas. However, one department chair said that approximately 500 students reported above projections, with about 200 of these being continuing students, and 300 freshmen. This could account for a slight problem in a small number of courses, but will certainly not justify the results seen.

When making projections for upcoming classes, the faculty request a certain number of texts for each course, by the bookstore's own admission. It was stated by several members of the faculty that the bookstore then automatically decreases the order by some unknown factor and orders less books than requested.

The bookstore admits that they do not order the number of texts requested for several reasons. For instance, if the bookstore does not sell a text, many printers will not take it back. They say some books have a poor turn over rate. The bookstore says that 90% of college bookstores operate on the same basis. This, from the management point of view is to keep down the bookstore inventory, allowing capital to be spent in other ways.

Even though this technique may seem reasonable to a profit oriented vendor (Brennan College Service, Inc. - the bookstore vendor), the real question is who picks the reduction factor? Aren't the faculty the most qualified to make such projections, and aren't they in fact the experts who should have the final word in the numbers of texts ordered? All faculty agree that their projections were not this far off and the additional students do not account for the deficit we are seeing.

It was suggested by the bookstore that the faculty automatically inflate their requests because they know the bookstore management will decrease the order, so the bookstore reduces the numbers even further and so on. This only creates a vicious circle with everyone involved wasting their time. Ultimately, the student has to pay for it (literally and figuratively).

To illustrate such a situation, it is reported that in one case, a department ordered the required number of texts for a given course. The bookstore requested and received from the publisher 40 percent of that order!

Several students said their math teachers told them that the MA 111 textbook will not be available for another month! Students have been getting xeroxed copies from the teacher which the department has printed. By the time the book is in stock, thousands of dollars will have been spent on printing copies of this text - chapter by chapter.

Many departments are facing the situation just mentioned. Humanities courses are copying the first act of several plays or the first chapter of a story required. Since the Embry-Riddle print shop is understandably swamped, many departments are going off campus to printers for fast service, in an attempt to best serve the students.

The chairmen of the departments on campus who chose this as a temporary solution attempted to alleviate the immediate situation the fastest way possible to ensure that the student would have required reference material.

Copies of texts have been placed on reserve in the library for students to use or copy (at the student's expense of course). This caused some confusion the first day of class, since instructors realizing the books were in short supply, promised to place a copy on reserve. It does however take some time to process the request to place a book on reserve, so the library was temporarily swamped.

One faculty member was quite angry over the handling of ERAU produced material. In many courses, books are produced at the ERAU print shop, then assembled and sold by the bookstore.

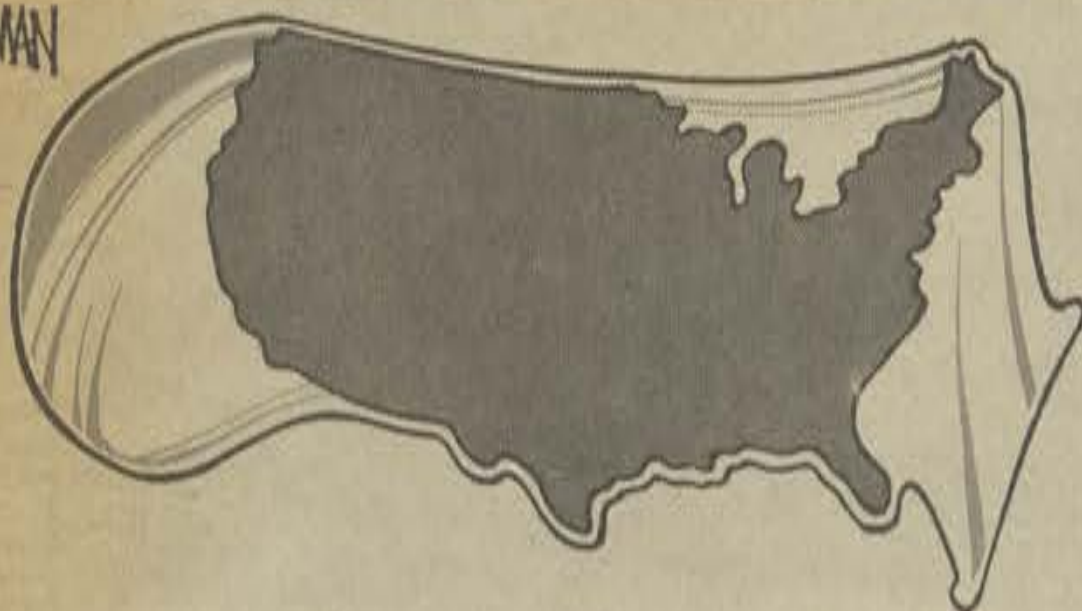
In some courses this semester, the pages were in the bookstore early in the summer, requiring only to be collated and placed in a loose leaf binder. These books were finally made available to the students on Thursday, one week after the start of classes.

That instructor said "The bookstore is unimaginative and incompetent! We should seriously look at this operation from the top down. We need to stand up for the students!"

The concern of the faculty goes beyond individual comments about personal courses. It has been reported that the bookstore manager, Robert Long, has been invited to attend the meeting of the Faculty Senate, held on Tuesday, Sept 13.

A member of the *Avion* staff spoke with several bookstores around town (B. Dalton, Waldenbooks, and the Book Outlet) to see if texts could be special ordered privately. All of the stores said that usually texts are not available through their sources, and the few that they could get would require six to eight

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## CONDOMINATION

### Letters to the Editor

#### South of the border

To the editor:

It feels funny to be here in the Avion/Phoenix Office typing this letter after having been away for more than a year. Now I am back at ERAU, but not here to stay. I came for a short visit and by the time you read this letter, I will be back home in Mexico City.

When I told people about how much I missed this place, some might have thought I was crazy. They said, "Who could miss a place like this?" That is a good question. It is not just the place that one misses, it is the people that you meet, things you learn, and activities you do while being a student here.

While I attended ERAU, I was a very active person. I was a member of the editorial staffs for the *Avion* and *Phoenix*. I was also a brother of Sigma Phi Delta and a member of the Interfraternity Council and L5 Aerospace Society. When I had the opportunity, I always tried to be a part of any event the university organized, and was always active with the SGA.

I was once told that there was not

any school spirit here at Embry-Riddle. You know what? This person was completely wrong. If you want, you can always find something to do and lots of people to have a good time with.

However, having fun cannot be all that is important while attending this university. The main reason that we are here is to go to class and learn the most that we can so that we will be well prepared when we have to go out to the real world.

I wish that I had been able to maintain the balance between education in class and that which you receive when you share everything with other people. Maybe I would have graduated by now, and would not have to worry about the economy of my country collapsing and not letting me continue attending this university. But, it is already too late. I now have to go back to Mexico and wake up from such a great dream of sometime going into space.

Having attended ERAU opened many doors for me in my country. Though I never graduated, I now hold a well-paid engineering position in an important oil-related company in Mexico. I live well, have a girlfriend that I love very much, and other many

things that I always wanted. This past August, I will have started classes at a private university in Mexico City. A year or two later, I will graduate as an industrial engineer. Sounds good, doesn't it?

Well, it is not that great. Since I can recall, I wanted to work with airplanes, rockets, and travel into space. I had a chance to do it, but now have lost it. I love aviation and will not be completely happy until I come back to it.

I hope you have better luck and that you can always keep that balance. I know, for sure, that I will never let too much weight go to one side again.

If you were among those people who met me during the almost four years that I spent at ERAU, please try to keep in touch. My address is: Platon #126 Polanco, Mexico, D.F. 11560, Mexico.

I hope that we meet again in the near future. Please do not forget how great Embry-Riddle Aeronautical University is and think about the things that you can do to make it better.

Smile,  
J. Miguel Vidal

## C & O Day is today!

Join a club

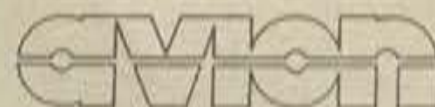
Join an organization

Get involved

Get it together

Get going!!!

In the U.C. today 8-4.



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This week's staff: Erika Foster, Joseph Szarmach, Robert Watt, Todd Unruh, Manny Fernandez-Longo, Ervin Dampier, Robert Rohr, Kevin Denison and Chris Hammett.

The opinions expressed in the Editorial are those of the majority of the Editorial Board, and do not necessarily represent those of the university, the staff of the *Avion* or the members of the student body. Opinions expressed elsewhere are those of the writer, who is identified.

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

The *Avion* Editorial Board members are: Chris Legvold, Ben Brennan, Robb Girnus, Denise Harrison, Danny Mangano, John Gonzales, Phyllis A. Salmons, David O'Donnell, Kyle Weststrate, Shawn Greer and Dr. Roger Osterholm.

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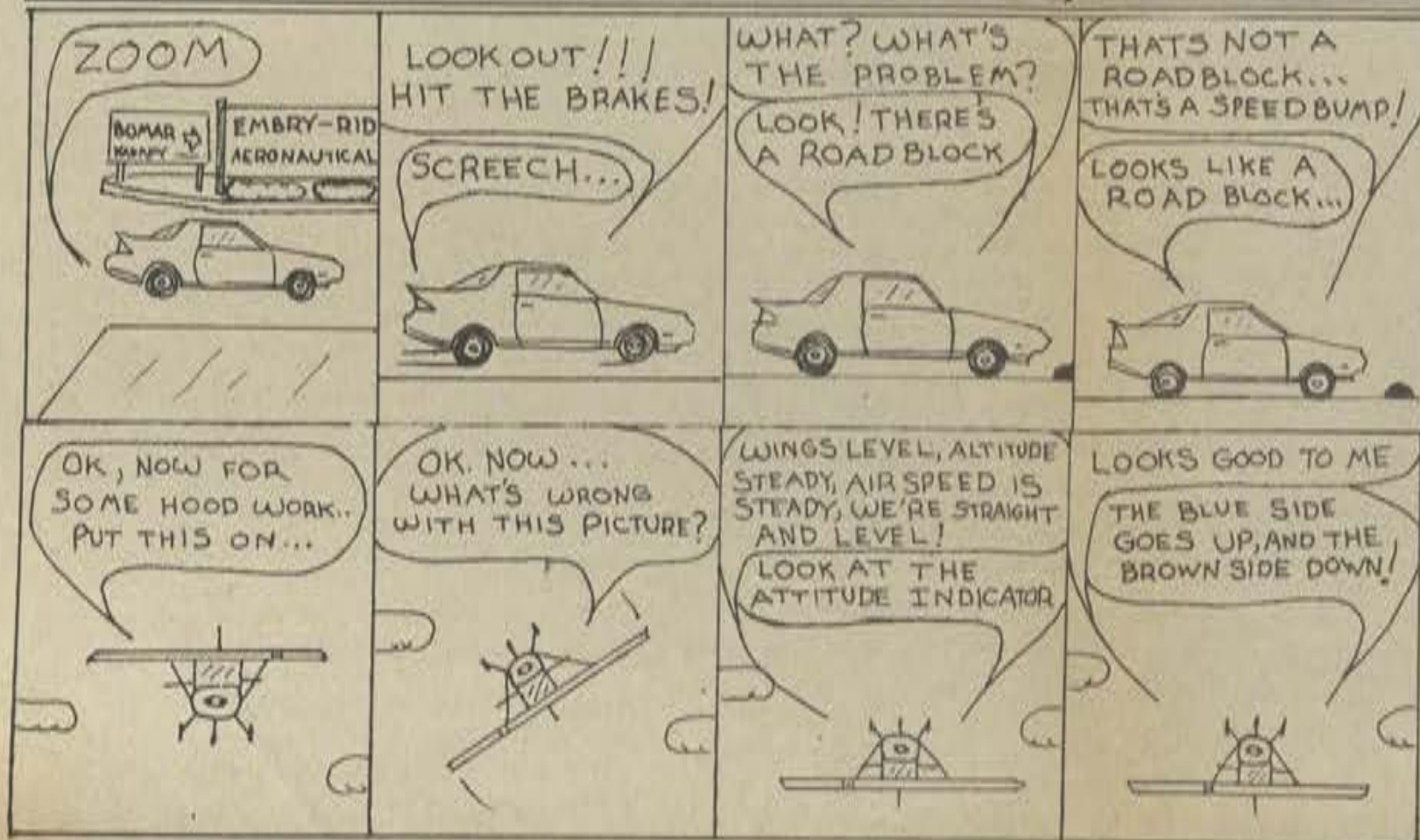
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### Joe Pilot

by Joe Szarmach





**Student Forum**

**The Avion asks :** Were you affected by the shortage of textbooks during the first week of school? If so, comment.



**Heather Warden**

Yes, I have no Statics book and I was told just today that the book might not be in until the 16th of this month. I also have no Chemistry book.



**Steve Rowley**

No, I tried to pick the classes that required the least amount of books. I try to avoid as many lines as I can on campus.



**Krista Palmer**

I'm supposed to have a Cessna 172 maneuvers guide to study for my 104 class but they still haven't gotten it in yet. It's really hard to study for a class when you don't have the materials you need.



**Karla Wrolson**

Yes, I was not only affected the first week of school but also this week and the books I need won't be in until at least next week. They did get some books in, but only 30 books for 200 people! They also got some of the wrong books in!



**Beth Kress**

Yes, I was affected by the limited supply of books. By the second week, I still had not gotten my Aeronautics books. Just a couple of days ago, I bought some of my expensive supplies for Aeronautics, but yet I still have a few more books to get. They knew what they were in for with so many students applying!



**Laura Blair**

It's already the second week of school and I still don't have all of the books I need. They were supposed to be in yesterday and the ones they got in are already gone so I have to wait another week and a half. How am I supposed to keep up with my classes if I don't have the books?

**Riddle guys earning dual degrees while attending E-R Celibacy U.**

by Greg Mullin  
Avion Satirist

Men at Embry-Riddle, unless already wed to cooperative wives, can expect to receive a double major upon the completion of their courses here. One in the degree they have chosen, and the other in celibacy. Fact is, nowhere on this continent and perhaps on this planet, (with the exception of a monastery in Tibet), can one receive a more thorough and intense course of study in the discipline of celibacy than here at our Embry-Riddle.

Let me not lead the reader to believe that a post secondary education is incomplete with out at least a weakly regimen of feverish and passionate sex. Let me simply suggest that it adds a bit of "zazz" to what can often be a rather mundane lifestyle. Let's be candid.

In one of last year's issues of *Playboy* magazine, there was an article on the ten most "party oriented" schools in the country. Guess what, ERAU didn't occupy a space on that list. In fact, had that list been extended to not the top ten schools, but rather ten raised to a power (greater than one), I have cause to believe

that our absence from such a survey would be indubitable. Plainly, we collectively generate enough sexual stimuli to excite a colony of impotent knats

Theologically speaking, most of us are first-order candidates for sharing the abode of God. Philosophically speaking, we are none more than an enormous mass of sexually frustrated people

Hey, this article was not designed to be selectively offensive. Those people that find it just that, kindly turn the page. This is simply a realization built on a recently published statistic based on the male to female ratio at our school. By the way, the ratio is 13:1, and thus, such a relation lends itself to justifying any prejudice that might be interwoven in the fabric of this literature.

Then again, what the hell, lets approach this entire subject from a totally isolated perspective as suggested in the *New York Times*: "The clitoris is the last vestige of the inseminating organ of a conquered, enslaved, trivialized and finally emasculated race of weaker, but not necessarily dumber, anthropoids." Cancel my subscription!



**Attitude Indicator**

Do you have problems with instructors not adhering to there scheduled office hours?

Yes \_\_\_\_\_ No \_\_\_\_\_

Let us know, drop this survey off at the Avion office (in the U.C., upstairs) or into the interoffice mail. The Avion will compile the results and print it in the next issue.

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### Aviation administration funds university's aviation study

GRAND FORKS, N.D. (AP) The Federal Aviation Administration has given University of North Dakota faculty \$190,000 to expand on their findings in a study of the human factors of flying.

The grant could lead to a multi-year, multimillion-dollar project for the UND Center for Aerospace Sciences, said Gerri Saylor, a spokeswoman for the center.

"There's a lot of concern right now about how future trends in aviation are going to affect what a pilot needs to know to fly an aircraft," Ms. Saylor said.

"Basically, they're trying to identify what a pilot needs to know from the day they step into a Cessna 152 trainer aircraft until the time they step into the right seat of a B-777 as a member of a flight crew for a major airline," she said.

The center, along with the Northwest Aerospace Training Corp., conducted a six-month study analyzing the future knowledge requirements of prospective pilots.

The FAA has asked UND to expand on the study and formulate a proposal that could be used as a basis for recommending and implementing changes in pilot certification standards, Ms. Saylor said.

"The FAA looked to UND because we had a jump start on the human resource aspect," she said.

The Center for Aerospace Sciences and representatives of the University Aviation Association, made up of other collegiate aviation programs, will meet this fall to divide the study into areas of interest and expertise, she said.

Recommendations from the study could be ready for the FAA as soon as two to three years, Ms. Saylor said.

The Center for Aerospace Sciences will begin its study this fall as part of its pilot training program, she said.

### U.S. carrier wins ruling against Japanese restrictions

WASHINGTON (AP) The government said Friday it will restrict U.S. air freight rights of Japanese airlines unless Japan allows Flying Tiger Line, an all-cargo American carrier, to operate unrestricted Europe-Alaska-Japan service.

Accusing Japan of discriminating against Flying Tiger in violation of the two countries' air transport agreements, the U.S. Transportation Department declared that it will "impose such sanctions as are necessary" against Japanese carriers.

The department approved a complaint by Los Angeles-based Flying Tiger charging that the Japanese government had unfairly sought to restrict traffic on its proposed Europe-to-Tokyo freight service via Anchorage, Alaska. It asked the department to restrict U.S. cargo operations by Japanese lines "sufficient to compensate for the restrictions" on Flying Tiger.

"The Japanese limitations on Flying Tiger's proposed operations simply cannot be reconciled with Flying Tiger's rights" under government agreements, and "moreover, those Japanese-imposed limitations subjected Flying Tiger to patently discriminatory treatment," the department said in its decision.

The department said it would hold up retaliation against Japanese companies pending the outcome of negotiations between the two governments Sept. 19-22 in Tokyo. This was requested by Japan Air Lines, one of two Japanese carriers ordered by the Transportation Department to provide data about its freight services in preparation for further U.S. action. The other was Nippon Cargo Airlines.

The department said Japan failed to approve Flying Tiger's Tokyo-Alaska schedules unless it would accept "unreasonable and unjustifiable" reporting requirements and route restrictions.

### Another 4,000 jobs go; incredible shrinking airline?

MIAMI (AP) Money-losing Eastern Airlines eliminated 4,000 more jobs Saturday in the "downsizing" it says it needs to survive, but the unions charged that the cutbacks are actually making the airline less competitive.

The cuts, which are being contested in court by the unions, reduced Eastern's workforce to fewer than 30,000. Less than four years ago, it had 42,000 workers.

Among the 4,000 are few hundred flight attendants, mechanics, baggage handlers and ramp agents who are taking early retirement or quitting, Eastern said.

Eastern, which lost \$182 million in 1987 and \$149 million in the first half of 1988 and is \$2.5 billion in debt, estimates it will save \$100 million a year with the latest cuts. Eastern was taken over more than two years ago by Houston-based Texas Air Corp.

"Frank Lorenzo is using typical robber baron strategy to plunder the company and try to make all the cash he can,"

Eastern's unions will argue against the layoffs later this month in the U.S. Court of Appeals in Washington, which allowed Eastern to cut the jobs if it posted a \$4.7 million bond to cover wages if workers are later reinstated.

The appeals court earlier this month set aside an injunction by U.S. District Judge Barrington Parker, who had barred Eastern from eliminating the jobs without negotiating with its unions.

### Texans to pitch idea of joint space shots to Soviets

HOUSTON (AP) A group of 15 Americans, including several from Texas, are en route to Moscow for talks with top Soviet officials on the possibility of future cooperative efforts in commercial space ventures.

Smith believes one day private space commerce, in hand with NASA, will be a strong part of the city's industrial diversification, taking up some of the slack left by the slumping oil and gas business.

"The Russians have built so strong a space program that they are well ahead of us in some areas, and we have a lot to learn from them. And possibly a lot to gain by cooperating. That includes manned activities in space, including especially lunar base activities," Smith said.

### Miami's top air controller probed for hitching rides

MIAMI (AP) The chief air traffic controller in Miami has been pulled off his job because he allegedly hitched too many free rides on commercial airliners, a Federal Aviation Administration spokesman said.

William Abernathy is being investigated for possible abuse of the "flight familiarization" program, which allows controllers to ride in cockpits to observe flight procedures.

Under the flight familiarization program, controllers are limited to eight free rides a year, and only one can be international.

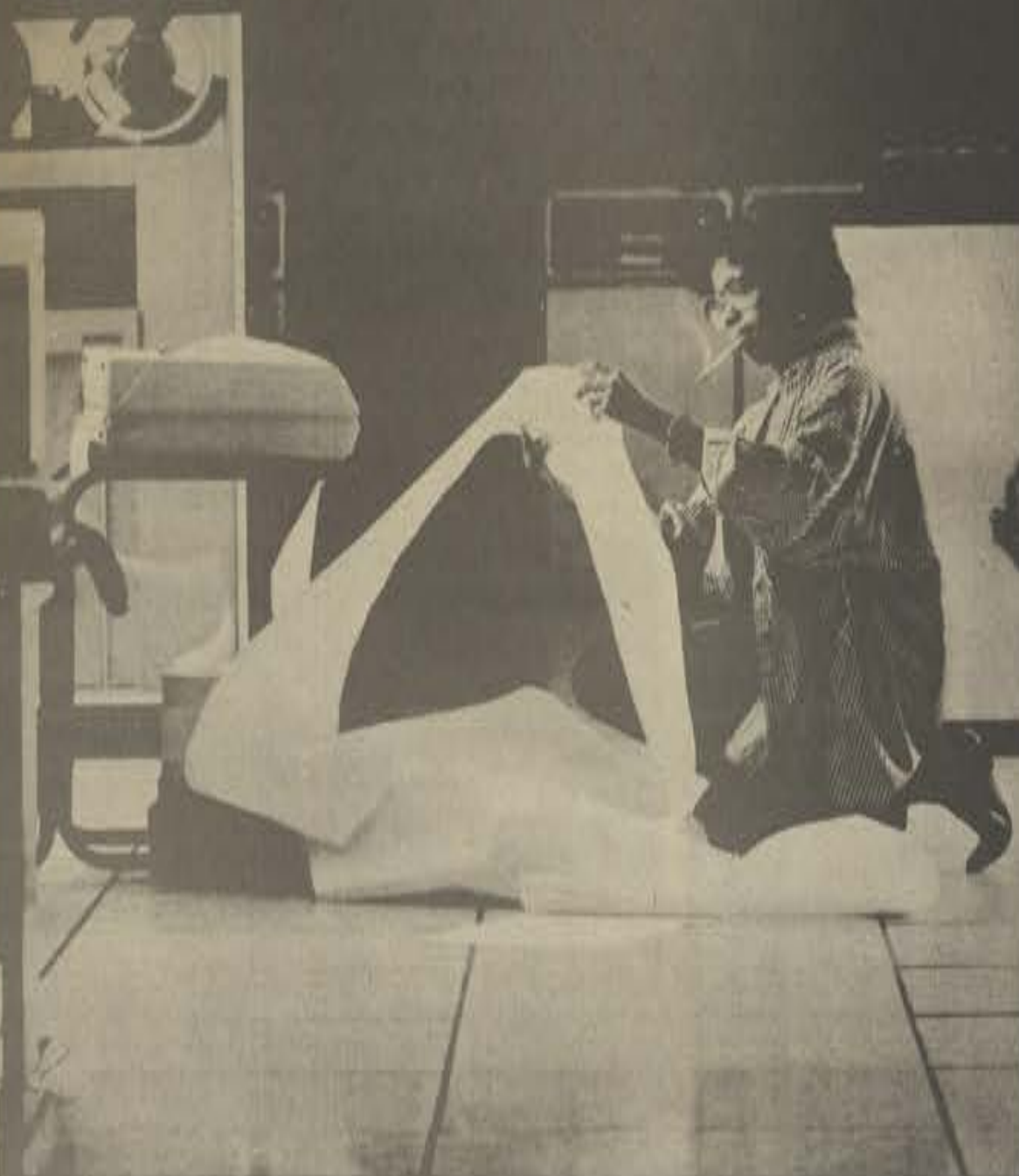
Abernathy, who has worked for the FAA for 24 years and has headed the Miami office since January 1985, could have his flight privileges suspended for two years if the abuse is proven, Myers said.

FORT WORTH, Texas (AP) American Airlines Inc. may have lost more than \$50 million because of a mistake programmed into its computerized reservations system.

The airline's chairman told industry analysts this week that faulty computer software mistakenly restricted the sale of American's discount tickets, probably driving price-conscious travelers to competitors.

Crandall told the analysts that the modified program prematurely stopped the sale of discount tickets for American flights, even though under normal circumstan-

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## Around the world record set

by Marianne Taras  
Avion Aeronautica Reporter

A Gulfstream IV business jet has reclaimed the around-the-world speed record set a few weeks earlier by a Boeing 747 SP. The jet claimed the eastbound record for aircraft in both the unlimited and 55,000 to 77,000 pound weight classes. The eastbound record setting flight began from Houston's Hobby Airport.

The Gulfstream IV, which is powered by Rolls-Royce Tay engines, logged an average speed of 637.71 mph. There were only four en-

route refueling stops. The total distance flown was 23,048,589 statute miles. The total lapse time was 36 hrs 8 mins and 34 seconds, which was 45 mins and 41 seconds faster than the 747.

The Gulfstream IV flew the U.S. and World records under sanction from the National Aeronautics Association in the C-1K class for aircraft in the 55,000 to 77,000 pound and the unlimited weight categories.

Gulfstream Aerospace is a subsidiary of the Chrysler Corporation.

## EAA Mourns the Loss of David Scott

EAA Press Club Release

David Scott, who served as a representative of the Experimental Aircraft Association (EAA) in Washington DC for more than 25 years, died at his Washington home on Friday, Aug 26, at age 77.

EAA founder and President Paul Poberezny said the loss of Scott would be felt not only by the EAA but by the entire aviation community.

"David has always been an unyielding champion for aviation," Poberezny said. "He often served as EAA's eyes and ears in our nation's capitol, attending countless committee meetings and hearings on our behalf. David met with lawmakers and FAA officials, explaining EAA's position on critical avia-

tion issues. He also kept EAA headquarters informed of the latest Washington news and worked very hard to protect the rights of members.

David was a true leader in supporting aviation in this country. His efforts and friendship will be sorely missed."

In 1965, Scott met Paul Poberezny when both were attending an aviation activity in Florida. They found they had a great deal in common, particularly a strong love for aviation. Less than two years later, Poberezny invited Scott to EAA headquarters in Hales Corners, Wis., and asked if he might be interested in becoming EAA's first-ever Washington representative. Scott accepted the challenge and

worked diligently to preserve the rights enjoyed today by EAA members.

Aside from his daily face to face meetings with Washington officials, Scott was the author of the popular *Washington Report*, which appeared each month in EAA's flagship publication, *Sport Aviation*. Through his articles, Scott was able to bring EAA members up to date on the latest event in Washington affecting general aviation and address the problems and concerns of the aviation community.

Scott is survived by his wife Rosamond and brother, George.

## Piper Aircraft breathes sigh of relief!

by David O'Donnell  
Aeronautica Editor

Piper Aircraft and owners of Piper airplanes can breathe a little easier. The FAA has decided to recede a recent Wing Spar airworthiness directive (AD). This new rule would have meant thousands of dollars in inspection fees for the some 38,000 aircraft owners it would have affected.

According to the FAA, about 560 spar inspections have been performed under the revised AD, with only three additional cracks found in two Alaska-based aircraft that had been operated in a severe environment. This new ruling should help Piper continue with some of the major changes going on there.

On an upbeat note, Piper's C.E.O., Stuart Miller, took the new Cub on its maiden flight. The Super Cub was re-introduced earlier this year at EAA's Sun and Fun Fly-in in Lakeland

Florida. Between 1947 and 1982, Piper manufactured some 8,400 of the versatile, popular single engine airplanes in Lock Haven Pa.

Today's Super Cub is being offered in a factory ready airplane or in a home assembly kit. The unique thing about this at-home assembly is that after careful assembly and inspections required by Piper this aircraft will be certified in the "normal" category.

Along with the reintroduction of the new Super Cub, Piper is introducing a new trainer aircraft. The Piper Cadet also made its debut at the Oshkosh fly-in. In the few months that followed the fly-in the Cadet has come on strong to become a "best seller". In the three months following the fly-in, Piper had booked over 100 orders. Piper introduced the Cadet in April, responding to the quickly growing worldwide need for a

modern, affordable, training aircraft.

The Cadet is based on the Warrior design, a two place side by side, fixed gear model that will sell for \$45,995 in the VFR configuration and \$54,995 for an IFR model.

Along with the two new aircraft coming into the inventory, Piper will continue to offer several of their current models. Piper will continue to offer several single engine four place aircraft including the Warrior II, the Archer II, the Dakota and the Turbo Arrow IV. They will also continue to offer several of their high speed commuter aircraft, including: the Saratoga and Saratoga SP, Seneca III and the Malibu.

This has been a busy first year for the Piper Aircraft Corporation under the new management guns of C.E.O., Stuart Miller. He certainly has set an uphill course for Piper in the next 50 years.

## World's largest airport to begin construction

by Marianne Taras  
Avion Aeronautica Reporter

In an historic vote, the residents of Denver and surrounding areas gave their approval for the annexation of a new mega-airport that will encompass 45 square miles. It will be located 18 miles northeast of downtown Denver.

The plans for this airport have been in the works for over 20 years. Now, that approval has been granted; the world's largest and most technologically advanced airport is underway.

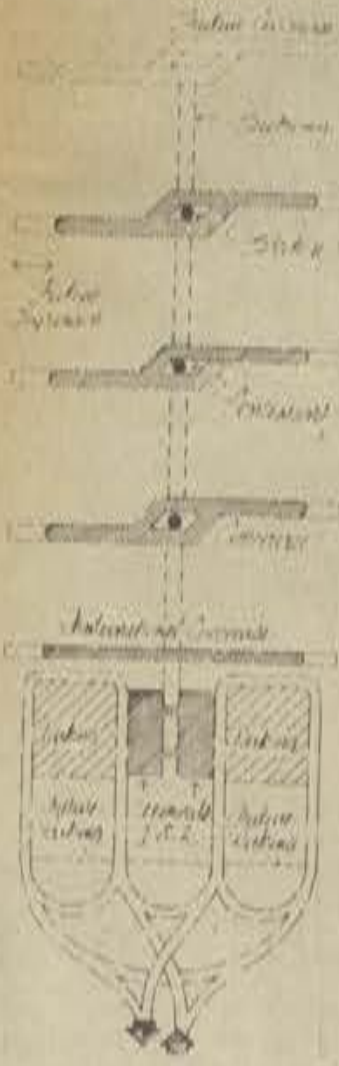
Denver's Stapleton International is currently the fifth busiest airport and by the turn of the century is expected to be the second busiest.

Construction of the new airport could start as early as 1989, and the first phase could be ready to service passenger traffic by 1995. Upon completion, the airport is supposed to in-

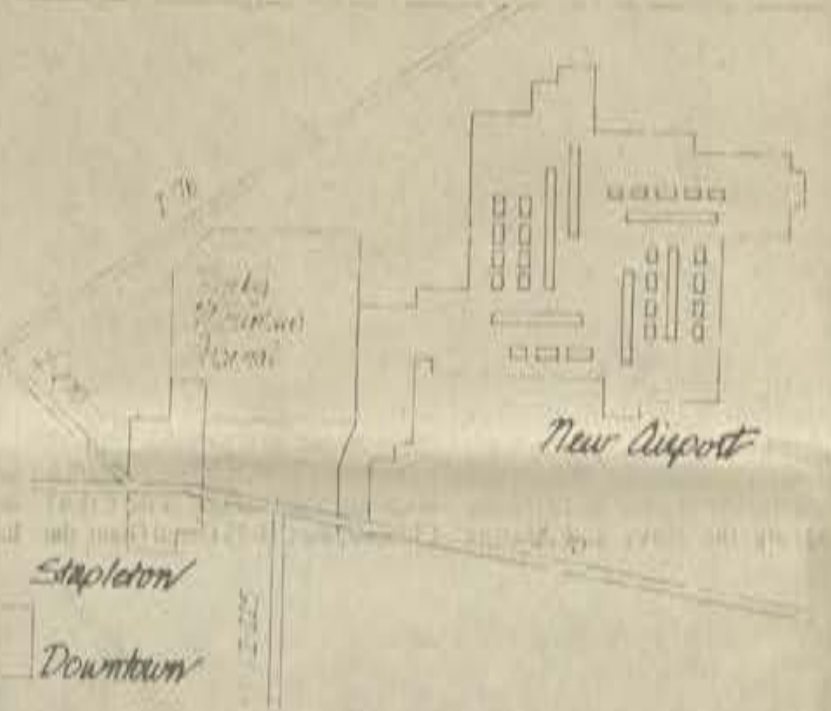
clude: 120 gates, two terminals, and six active runways. After completion of Phase 1, Stapleton is scheduled to temporarily close. Funding for the airport will include \$1.7 million in bonds and federal grants.

Denver's aviation director George Doughty said, "The 2.8 million square foot terminal will have everything you would find available in a shopping mall."

The project management team of Greiner Engineering Inc. has been chosen to oversee the construction of the largest airport ever built. The project is expected to create 10,500 construction jobs and by the year 2010 is expected to generate 54,000 related jobs, \$8 billion in business revenue, \$1.6 million in personal income, and \$113 million annually in state and local taxes.



This is the prospective layout for the new Denver Airport. Shown above is the concourse layout similar to the arrangement at Atlanta's Hartsfield Airport, with concourses connected by an underground transportation system linking them to the main terminal buildings. The picture at the right shows the prospective runway and support arrangements. The new facility will encompass total land area of over 45 square miles.



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# Nation's best a/c powered by GE

by David O'Donnell  
Aeronautics Editor

GE seems to be leading the industry in the production of engines for high performance rotary wing and jet aircraft. Currently GE engines can be found in a number of the defense department's finest aircraft.

GE's F110-GE-129 Increased Performance Engine has begun integrated flight testing for the F-16C Falcon. Rated at 29,000 pounds sea level static thrust, the 129 is the successor to the 110 which is competing for the next upgrades in both the F-16C and F-15E Strike Eagle aircraft both slated for delivery to the Air Force in 1991.

Corp's F/A 18 Hornet and the non-afterburning version is in service in several allied versions. This engine was also chosen to power the X-29 Advanced Technology Demonstrator.

A few other GE engines currently powering military aircraft include: the F-103 (CF-50) in the KC-10A Extender and E-4B Airborne Command Center, the F-101 in the B-1B, the T-39 in the C-5A and C-5B Galaxy.

GE can also boast a few accomplishments in the rotary wing arena. The GE 38 and T-700 families remain pacesetters in the turbo powered engine group.

The G-38 includes a turboshaft, a turboprop versions and a turbo-prop

C-130 Hercules, and the experimental V-22 tilt rotor aircraft.

The other production turbo shaft engine in the GE inventory is the T-700 family. This is currently the 11th year of production for the T-700 which has accumulated an impressive record. The family has accumulated more than 2.7 million engine flight hours powering virtually all helicopters in the free world in the 1,600-2,000 shaft horsepower class.

Included in the list of aircraft currently powered by the T-700 are the: UH-60 Blackhawk, AH-64 Apache, AH-1W Super Cobra, SH-60B Seahawk, SH-60F CV Helo, HH-60 HCS, and a variety of allied aircraft as well.



Photo by Todd Smith

## Blackhawk hover...

G.E. is powering this and many more of the nations high-powered aircraft. This Army UH-60A Blackhawk is powered by the G.E. T700/CT7 producing 1,900 shaft horsepower.

The 400 version of the F 110-GE is currently undergoing carrier suitability testing to be used in the update of the Navy's F-14 Tomcat and their new F-14D Super Tomcat.

The GE F404 family has exceeded one million flight hours and has delivered more than 1,700 afterburning F404's since 1980. This 16,000 pound thrust engine is currently powering the Navy and Marine

version. The 6,000 shaft horsepower class GE 38 was selected by Lockheed Aeronautical Systems Company to power Lockheed's modern turboprop aircraft in the U.S. Navy's Long Range Air Anti Submarine Warfare Capable Aircraft (LRAACA) competition. Future plans for the G 38 include application in the upgraded version of the CH-47 Chinook, the CH-53 Green Giant, the

GE has done an impressive job of establishing itself as a leader in aircraft engine production and the list of aircraft currently powered by their engines proves it.

They are truly "looking to the future...to meet the 21st century's challenges around the world, while enhancing the standards of reliability and maintainability that GE engines have established."

# Starship moves one step closer to production.

by David O'Donnell  
Aeronautics Editor

One stumbling block for full scale production of the Beechcraft Starship has been removed. The new, all composite aircraft is beginning production after being awarded Type certification this past June. The only remaining issues to be settled for the FAA to award full certification are the Auto pilot testing and flight into known icing conditions. These should culminate later this year. Another stumbling block that literally crumbled earlier this year was the lightning strike tests. Beechcraft decided on a few structural improvements including a thin

wire mesh incorporated into the composite to ease most of the worried minds. Any other skeptics were laid to rest when a Starship sustained an inflight lightning strike while undergoing an icing test. Miraculously, the strike was captured on videotape by a technician filming the icing test. This is believed to be the only non-intentional lightning strike ever caught on film.

With these few things out of the way the production lines at Beech are rolling. NC-4 takes the lead on the assembly line with NC-5, NC-6, NC-7 following behind. As NC-4 comes to a production station in the assembly process that station is opened up for production. The

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NFC STANDINGS

EASTERN		W	L	T	PF	PA	Home Record	vs. Division
N.Y. Giants	2	1	0	56	50	1-1-0	2-0-0	
Washington	2	1	0	67	66	2-0-0	1-1-0	
Dallas	1	2	0	48	50	0-1-0	1-1-0	
Philadelphia	1	2	0	75	59	0-1-0	0-1-0	
Phoenix	1	2	0	58	62	0-1-0	0-1-0	

CENTRAL		W	L	T	PF	PA	Home Record	vs. Division
Chicago	2	1	0	58	51	1-1-0	0-1-0	
Minnesota	2	1	0	77	26	1-0-0	1-0-0	
Detroit	1	2	0	55	58	1-1-0	0-0-0	
Tampa Bay	1	2	0	51	81	0-2-0	1-0-0	
Green Bay	0	3	0	34	71	0-2-0	0-1-0	

WESTERN		W	L	T	PF	PA	Home Record	vs. Division
L.A. Rams	3	0	0	73	34	1-0-0	0-0-0	
New Orleans	2	1	0	84	89	0-1-0	1-1-0	
San Francisco	2	1	0	71	84	0-1-0	1-1-0	
Atlanta	1	2	0	72	77	0-1-0	1-1-0	

AFC STANDINGS

EASTERN		W	L	T	PF	PA	Home Record	vs. Division
Buffalo	3	0	0	38	30	2-0-0	2-0-0	
N.Y. Jets	2	1	0	71	34	1-0-0	0-1-0	
Miami	1	2	0	37	60	1-0-0	0-1-0	
New England	1	2	0	49	85	1-1-0	1-1-0	
Indianapolis	0	2	0	27	34	0-2-0	0-0-0	

CENTRAL		W	L	T	PF	PA	Home Record	vs. Division
Cincinnati	3	0	0	65	50	1-0-0	1-0-0	
Houston	2	1	0	58	94	1-0-0	0-0-0	
Cleveland	1	1	0	9	26	0-1-0	0-0-0	
Pittsburgh	1	2	0	65	68	1-1-0	0-1-0	

WESTERN		W	L	T	PF	PA	Home Record	vs. Division
Seattle	2	1	0	58	41	1-0-0	2-1-0	
Denver	1	2	0	81	44	1-1-0	1-2-0	
Kansas City	1	2	0	33	50	1-1-0	1-1-0	
L.A. Raiders	1	2	0	78	73	1-1-0	1-0-0	
San Diego	1	2	0	33	64	1-0-0	1-2-0	

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American League


EAST	W	L	PCT	GB	LAST 10	STREAK	HOME	AWAY
Boston	88	64	.570	—	6-2	Won 3	53-25	32-29
Detroit	78	70	.520	8	3-7	Lost 1	45-30	34-40
Milwaukee	80	71	.530	8	6-4	Won 1	44-32	36-39
New York	78	70	.520	8 1/2	6-4	Lost 3	42-32	36-38
Toronto	77	73	.513	8 1/2	6-4	Won 1	40-35	37-38
Cleveland	71	76	.477	14	3-7	Lost 1	36-33	33-45
Baltimore	52	95	.354	22	4-6	Won 1	32-40	20-55

WEST	W	L	PCT	GB	LAST 10	STREAK	HOME	AWAY
Oakland	85	65	.565	—	7-3	Won 2	49-28	46-29
Minnesota	83	68	.547	1 1/2	6-4	Lost 1	43-32	40-34
Kansas City	79	70	.520	1 1/2	3-6	Lost 2	41-33	38-37
California	75	75	.500	20	4-6	Won 1	35-39	40-36
Texas	68	83	.450	28	4-6	Lost 1	36-39	29-44
Chicago	63	89	.416	31	3-7	Won 1	36-39	27-46
Seattle	61	89	.408	33 1/2	5-5	Lost 1	35-41	28-47

National League

EAST	W	L	PCT	GB	LAST 10	STREAK	HOME	AWAY
New York	81	57	.588	—	9-1	Won 5	50-24	41-33
Pittsburgh	79	68	.534	12	6-4	Lost 1	41-34	38-35
Montreal	74	75	.497	17 1/2	3-7	Lost 3	40-34	34-41
St. Louis	73	77	.487	18	6-4	Won 1	40-35	33-42
Chicago	70	79	.470	21 1/2	2-8	Lost 1	36-39	34-40
Philadelphia	60	89	.405	31 1/2	4-6	Won 1	36-39	25-50

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RACQUETBALL DBLS. TOURNEY	MON., 10/17	FRI., 10/21
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3	Clemson	2-1-0	lost to FSU, 24-21
4	Oklahoma	2-0-0	beat Arizona, 28-10
5	Southern Cal.	2-0-0	idle
6	Auburn	2-0-0	beat Kansas, 56-7
7	Georgia	3-0-0	beat Miss. State, 42-35
8	Notre Dame	2-0-0	beat Michigan St., 20-3
9	LSU	2-0-0	beat Tennessee, 34-9
10	Florida State	2-1-0	beat Clemson, 24-21
11	Nebraska	2-1-0	idle
12	West Virginia	3-0-0	beat Maryland, 55-24
13	Alabama	1-0-0	idle
14	South Carolina	3-0-0	beat East Carolina, 17-0
15	Michigan	0-2-0	lost to Miami, 31-30
16	Penn State	2-0-0	beat Boston College, 23-20
17	Washington	2-0-0	beat Army, 31-17
18	Ohio State	1-1-0	lost to Pitt, 42-10
19	Iowa	1-2-0	lost to Colorado, 24-21
20	Washington	1-0-0	idle

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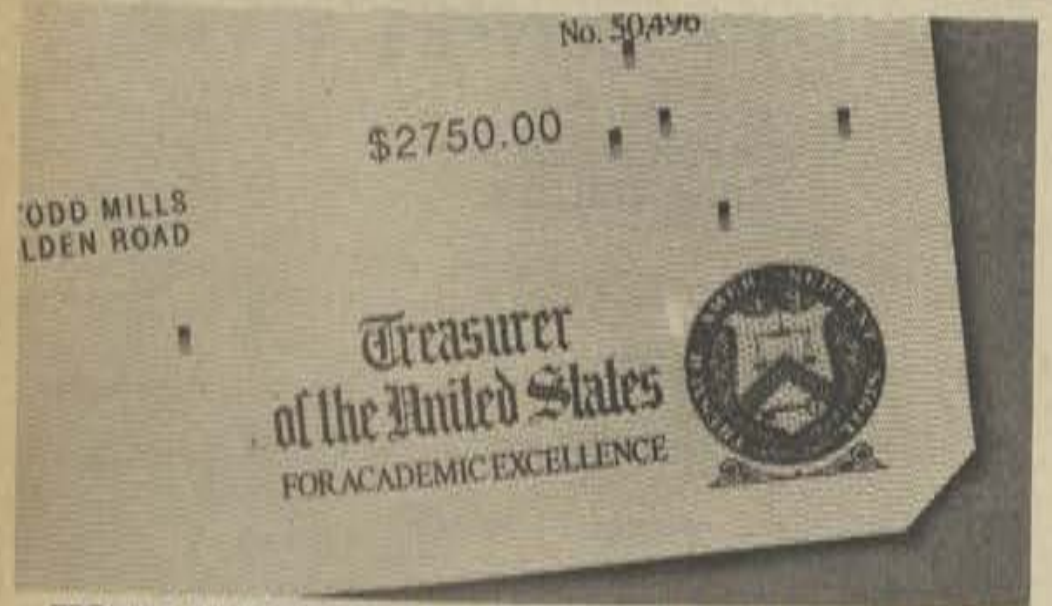


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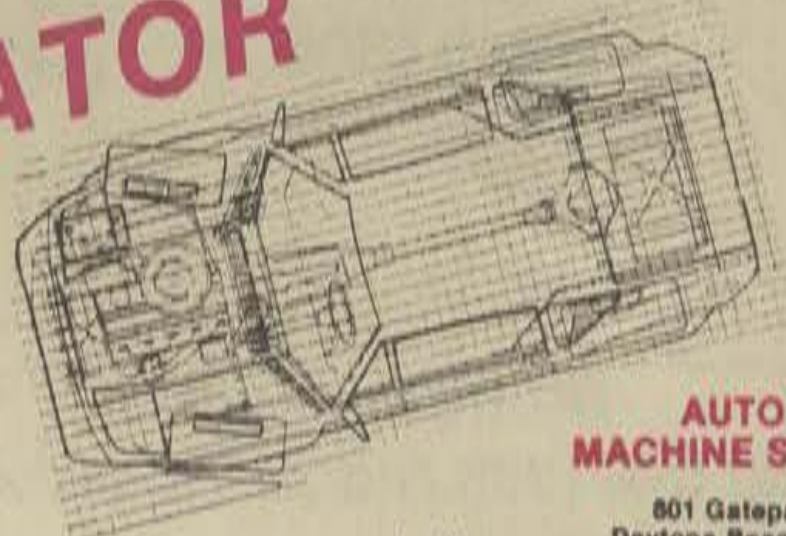
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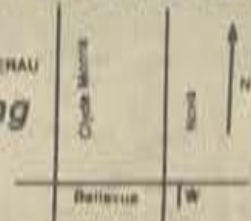
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## Viewing tips for shuttle watchers

by Michael Fried  
Space Technology Reporter

NASA has announced the next space shuttle mission. The 26th mission will lift off at 9:59am on Thursday, September 29th. However, their still remains one question, where should I be to view the launch?

One way is to obtain a car pass from NASA. Passes for this launch have all been given out. The pass allows you to get onto the Space Center grounds. From there the shuttle will be five miles away, the closest the public can get. The press is allowed to be three miles from the pad. So if you have a pass your all set.

The remaining viewers can line up on route 1. From the

side of the road, you will be eight miles from the pad. You will not be able to see the pad among the brush, but once the shuttle clears the tower it will be in clear view. In order to hear the launch commentary, you should bring a portable radio.

For those of you who will not be going to the Space Center, Daytona can also offer you a nice view. Of course, the shuttle will appear smaller and the viewing duration will be shorter.

NASA is expecting about half a million viewers on launch day. To find a space, you should arrive early. It's recommended that you even camp out the evening before.

# Countdown on Soviet shuttle flight

by John Holmes  
Reprinted Courtesy of Insight magazine

The launch clock ticks inexorably down toward zero. Massive engines ignite with enough force to send violent shock waves through the ground. Billowing clouds of smoke roll in all directions as the space shuttle, gleaming in the sunlight, thunders off the launchpad. This time, however, the familiar scenario has a twist: The shuttle is known as Kosmolet (Space Flier) and belongs to the Soviet Union.

Seven years after the United States flew the first of its shuttles, the Soviets are on the verge of launching the initial member of their fleet of reusable manned spacecraft. Inside buildings at the Baikonur Cosmodrome near Leninsk in the southwestern Soviet Union, crews of engineers and technicians are working around the clock to ready their first shuttle for flight.

The Soviets are keeping quiet about their launch date, saying only that they will announce it 10 days to two weeks beforehand. Alexander Dunayev, the chairman of Glavkosmos, the arm of the Soviet government charged with attracting commercial customers for rockets, says only, "We'll launch when we're ready." But Soviet space officials visiting Europe in the spring said they were nearing the final steps of their prelaunch process, and Western observers believe the launch will occur in a window that opens in a few weeks and closes early next year.

"Nobody over here knows because nobody over there knows", says John Pike, the associate director for space policy at the Federation for American Scientists and a member of a foreign delegation invited to inspect portions (but not shuttle facilities) of the cosmodrome, the Soviet equivalent of Cape Canaveral, in July. "When I was down there, we were trying to take a bet on whose shuttle would go first. And I could not find anyone on the Soviet side to take the bet. But I would bet even money that they fly before the end of the year."

There is also, of course, the chance that persistent or unexpected glitches could delay the launch for months or

even years. The Soviets are known to be having trouble perfecting the computer software that will drive the shuttle missions and, as is the case with the U.S. program, the vehicles are so complex that the ground crew spends as much time correcting flaws as it does readying the vehicles for flight. The program also appears to have become so expensive that the government has slowed the walk-up to lift-off.

In other areas, however, the Soviets seem ready to go. Over the past two or three years, intelligence experts say, they conducted a number of test firings of the gargantuan Energia SL-17 launch vehicle that will boost the shuttle into orbit, and they successfully launched their first Energia in May 1987. An error by a controller caused the dummy payload to splash into the Pacific Ocean, but the booster itself performed well. Also, they appear to have conducted as many as 20 shuttle test flights and landings. During a number of these tests - some at an airfield near the Moscow suburb of Ramenskoye, and others a Baikonur - shuttles were hauled high into the atmosphere on the backs of large planes and cut loose. At other times, jet engines mounted on back of the shuttles powered the vehicles through the air.

As yet, no Americans have laid eyes on the Soviet shuttles, but satellite photos indicate they are, on the outside, virtual copies of their U.S. predecessors. The Soviet shuttles are white on top with black heat tiles on the bottom and have the same raked tail and delta wing shape. They are believed to be 125.5 feet long with a 76-foot wingspan, within a few feet of the dimensions of the American shuttles.

Only two significant differences have been identified: The Soviet shuttle's wingtips appear more squared and the tail section does not have the three big engines that help the American shuttle take off. At one point, many Western observers believed the Soviet shuttle would fly with two or four tail-mounted jet engines to help it land. Now, however, it appears that the shuttles will fly with no main engines but will glide back to

Earth, as do the U.S. craft.

The similarity to the U.S. shuttles is so striking that some observers say the Soviets must have acquired plans and other pertinent information from the United States. But one defense intelligence expert says, "A lot of the reason theirs looks like ours is that it has to handle the same aerodynamic forces. They obviously realized we had a good design, but there are only so many ways to do what they need to do."

The Primary difference between the two systems lies in the launch vehicles. The Soviet's Energia SL-17 Booster towers 197 feet above the launchpad and could include as many as eight liquid-fueled engines. It is considered safer than the twin solid-fuel rockets that propel the American shuttles skyward because its engines can be throttled back or shut down in flight; once the solid-fuel boosters are lit, they cannot be turned down or shut off.

No one yet knows how many shuttle vehicles the Soviets have. They are believed to be planning to build as many as 10 and to have at least two already built.

"The problem is that, if you get a satellite photo of an orbiter, you don't know what you're looking at," Pike says. "You could be looking at one that is flightworthy, one that could fly but not in space, or just a shape."

One of the most intriguing questions surrounding the shuttle has been whether the first flight would carry a crew. Lt. Gen. Vladimir Shatalov, head of the Soviet space program, was quoted in May as saying that "when the Americans tested their shuttle, two men took off. I believe this experience is reasonable and can be used in our country." That remark led many Western observers to believe that the Soviets were planning a two-man crew for their maiden voyage, a shocking development in light of the fact that traditionally they initially fly their manned vehicles with no crew.

Now, however, "there is no question" that the first two missions will be unmanned, Pike says, explaining that Shatalov's remarks were taken

See SOVIET, page 21

### Commander admits he made mistake aboard marooned spacecraft

MOSCOW (AP) A Soviet cosmonaut said he made a mistake when he restarted the braking rocket of his stranded space capsule after a computer had shut it down, but he said he was impatient to bring the craft back to Earth.

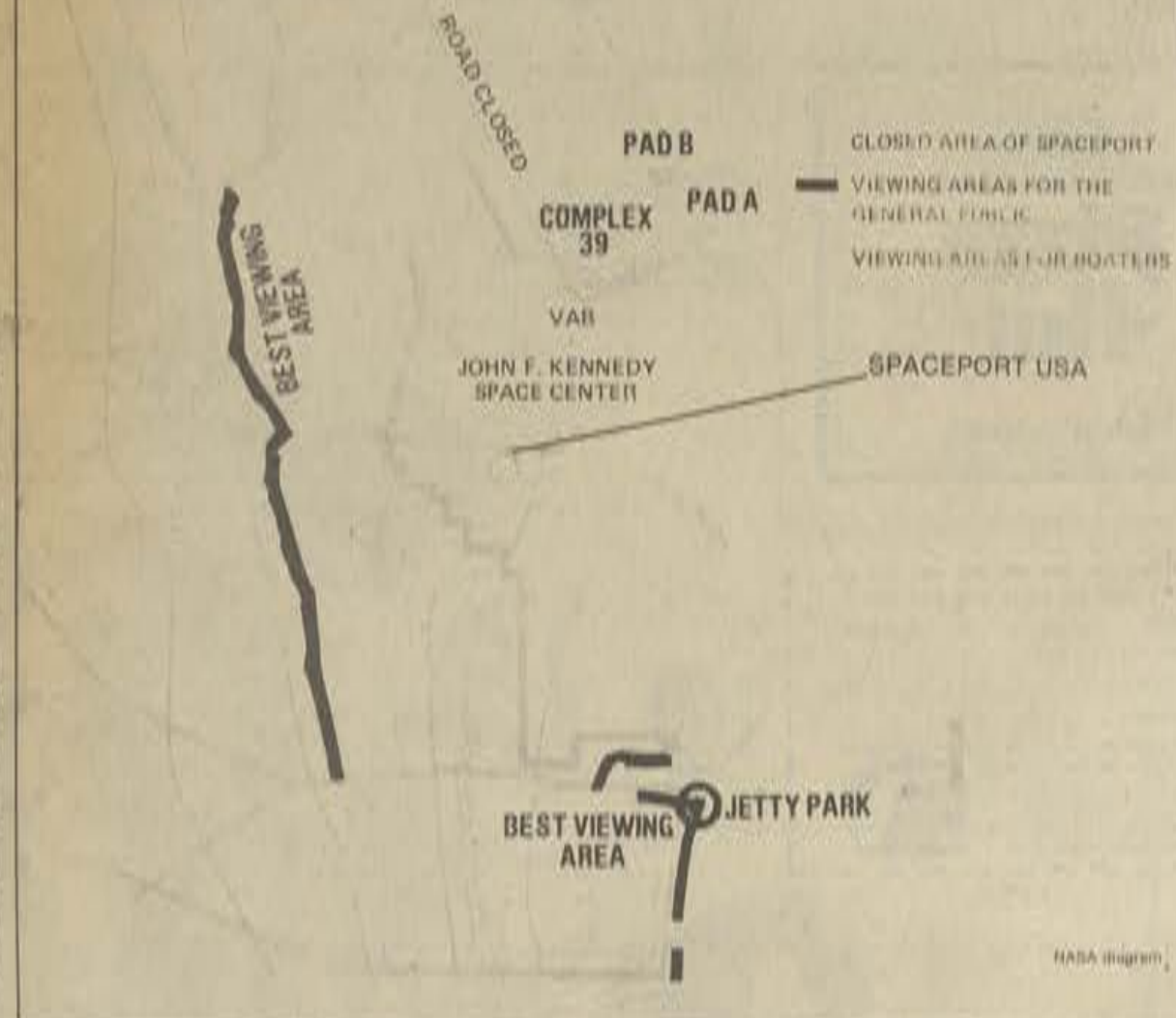
Lyakhov and crew mate Abdul Ahad Mohmand, the first Afghan in space, managed to land their Soyuz TM-5

capsule safely in Soviet Central Asia after 26 tense hours stranded in orbit while their oxygen and food ran low.

Lyakhov said an infrared sensor in the Soyuz guidance system malfunctioned during the first attempt to fire an engine that brakes the capsule, so that it can safely reenter the atmosphere.

## Viewing site

The best areas to watch shuttle launches are clearly marked here. A vehicle pass is required to get on NASA Causeway. Distance from the launch pad ranges from 6 to over 10 miles in the immediate area.

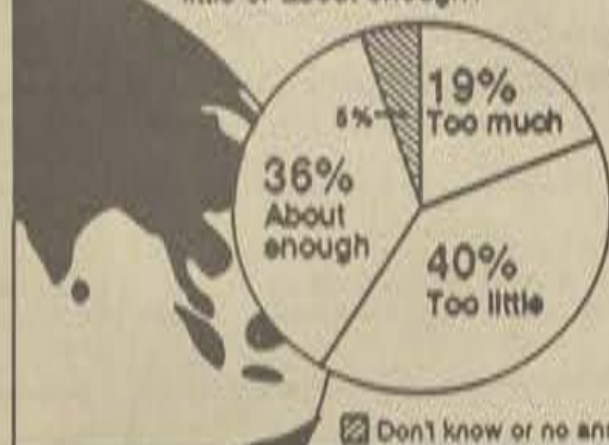


## Orbital Inclinations

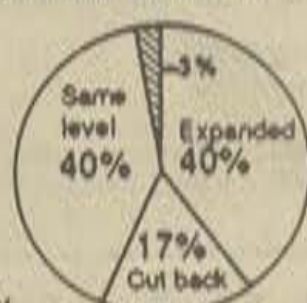
### Public Opinion

Media General AP Poll

In general, do you think the United States is doing too much in space exploration right now, too little or about enough?



Do you think the space shuttle program should be expanded, cut back, or kept at the same level?



Randomly selected sample of 1,223 adults

AP/Melinda Beck  
AP Low/Gallo

### Space slugs?...

According to a Media General-Associated Press poll, a majority of Americans feel that the U.S. is doing too little in space exploration and that the shuttle program should be kept the same or expanded.

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## United States wins world championship

By Robert Rohr

The United States mens and womens aerobatic teams came home from Red Deer, Alberta, Canada with the Aresti and Nesterov cup and the womens team championship. The mens team lead by Henry Haigh and Kermit Weeks walked away with one gold, two silver and a bronze medal. The top woman finisher was Ellen Dean with a silver in the overall championship.

The final standings for the medals are as follows:

**The Known:**  
Gold- Kermit Weeks U.S.A  
Silver- Nikolai Nikituk U.S.S.R  
Bronze- Henry Haigh U.S.A

**The Freestyle:**  
Gold- Claude Bessiere France  
Silver- Clint Mchenry U.S.A  
Bronze- Yurgis Kairis U.S.S.R

**The Unknown:**  
Gold- Eric Muller Switzerland  
Silver- Henry Haigh U.S.A  
Bronze- Patrick Paris France  
Team Men:  
1st- United States America  
2nd- U.S.S.R.  
3rd- France

**Team Women:**  
1st- United States America  
2nd- U.S.S.R.  
3rd- France

**Overall Mens Championship:**  
1st- Henry Haigh U.S.A  
2nd- Kermit Weeks U.S.A  
3rd- Yurgis Kairis U.S.S.R

**Overall Womens championship:**  
1st- Catherine Maunoury France  
2nd- Ellen Dean U.S.A  
3rd- Elena Klimovich U.S.S.R

The United States aerobatic team is looking forward to defending its crown in 1990, the competition will be held in Switzerland.

*Editor's note: If anyone is interested in getting involved in aerobic compiton call or write the F.E.A. for more information.*



**U.S. Top Scorers...**

Kermit Weeks (left) and R. Henry Haigh (right) of the U.S. took 1st and 2nd place in the overall mens aerobatic championship at Red Deer, Alberta.

## Book Reviews

By Robert Rohr

**The M24 CHAFFEE in action**  
Squadron/Signal Publications, Inc.

Armor publication #25  
This as all of Squadron/Signal publication is filled with a lot of good photos and hard to find information. The Chaffee in action covers its introduction in the spring of 1942 to its final services with the Laos and Cambodia Armed Services.

For a modelers its chalked up

with a lot of good photos and the middle part of the book has a fine color plate. If your into armor then this a book for you not to miss.

**The Cessna O-1 Bird Dog in action.**  
Squadron/Signal Publications, Inc.

Aircraft publication #87  
This is one of the first books that only deals with the Bird Dog and its role in the Armed Services. Squadron has done its research very well with excellent photos and in-

depth research. The book covers the Bird Dog from the 305 prototype to the OE-2, it also shows the many variations that were done to the Bird Dog program from the O-1 floatplane to the modified Bird Dog with a 60mm gun mounted in the rear. As usual the book is filled with many never seen photos like the first carrier Bird Dog landing and like all Squadron Publications it has a nice color fold out. All in all this is a nice book to add to ones collection.

## Concerts

**Daytona Beach**  
Octoberfest

9/23-9/25

**Orlando**

UB40  
George Michael  
Miss Peggy Lee

9/21  
10/23  
10/29

Florida State Fairgrounds  
Citrus Bowl  
Tupperware Center Theater

**Tampa**

Sada  
Bob Dylan  
New Edition  
Sinatra/Minelli/Davis Jr.  
B.B. King  
Robin Trower

9/21  
9/22  
9/24  
9/25  
11/11  
10/28

USF Sundome  
USF Sundome  
USF Sundome  
USF Sundome  
Tampa Bay Performing Center  
Busch Gardens

**Miami**

Bob Dylan  
Sinatra/Minelli/Davis Jr.  
Miami Sound Machine  
George Micheal

9/23  
9/24  
9/30, 10/1  
10/29

Miami Arena  
Miami Arena  
Miami Arena  
Orange Bowl

**St. Petersburg**

Whitcross  
King Diamond  
w/ Floisam and Jetsam  
Greatful Dead

9/23  
9/24  
10/15, 10/16

Boatyard Village Pavillion  
Jannus Landing  
Bayfront Center (Sold Out)

**Gainesville**

Bob Dylan

9/24

Stephen O'Connell Center

**Kissimmee**

Frankie Valli  
and the Four Seasons  
Lee Greenwood

9/24  
10/21

Osceola County Stadium  
Osceola County Stadium

## Movies

**Volusia Sq. 8**

<i>Presidio</i>	(R)	7:45 9:45
<i>Nightmare on Elm Street part 4</i>	(R)	8:00 10:15
<i>Die Hard</i>	(R)	7:30 9:55
<i>Moon over Parador</i>	(PG-13)	7:30 9:45
<i>Slaughter House Rock</i>	(R)	8:00 9:55
<i>Midnight Run</i>	(R)	7:30 9:45
<i>A Fish Called Wanda</i>	(R)	7:30 9:45
<i>Coming to America</i>	(R)	7:45 9:55

**Daytona 6**

<i>Bull Durham</i>	(R)	7:30 9:55
<i>Great Outdoors</i>	(PG)	7:45 10:15
<i>The Rescue</i>	(PG)	7:30 9:45
<i>License to Drive</i>	(PG-13)	8:00 10:15

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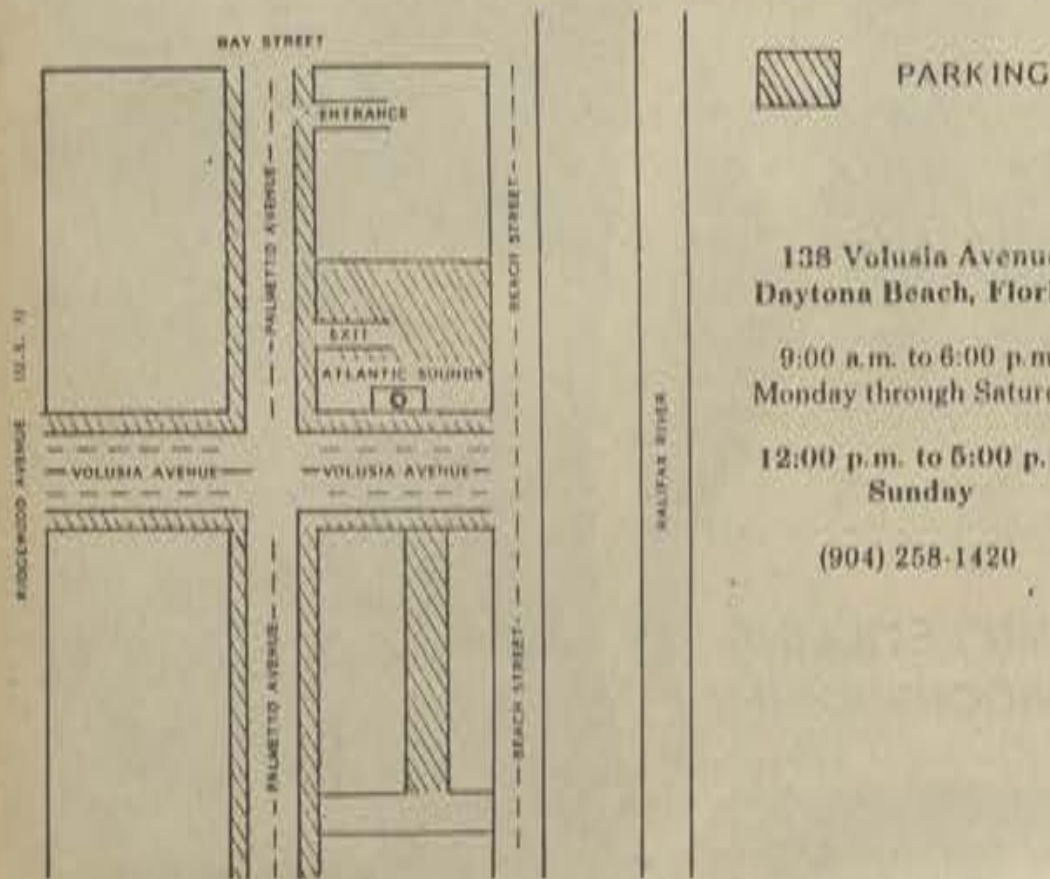
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## Chess Club welcomes you!

by John Cozen  
Chess Club Secretary

The Embry-Riddle Chess Club would like to welcome back its members from an especially active last year. Many Chess Club activities are planned for this Fall semester including speed chess tournaments, organization of a ERAU Chess Team for inter-collegiate competition and continuation of the ladder tournament. Watch in the Avion for meeting dates and times.

The chess ladder will be in effect again this year. The rules of the ladder tournament state that the position you had last year will be the one that you will start out with this year, so come see if you can wrestle prized positions

away from such players as Shola Gbadamosi, Roger Kayser, or Bob Morris. If you have any questions concerning the ladder tournament, please contact John Cozen, the ladder tournament director, at box 5837.

If you have any trouble making the meetings, please contact John Cozen at the above address. We would like to accommodate everyone but we know this will not be possible.

We hope that the Chess Club will get off to a good start again this year. Anyone with an interest in the game of Chess is invited to attend our meetings. Beginners are particularly welcome.

Get involved!

## Watch for Army cadets in physical training on campus

by Jeff Silver  
Army ROTC Public Affairs Officer

If you are of the many students who drive to school very early for your morning classes, please be extra cautious on and near campus. Army ROTC will be conducting physical

training (runs) during the Fall 1988 semester from 6:00am to 7:00am, Monday through Friday.

The roads most frequently used by the cadets are Catalina, Clyde Morris, Beville and Bellevue. Cadets will be running in groups and should be easily

spotted by the orange reflective vests that they wear.

Once again, if you are driving on these roads in the early morning, please exercise caution. Thank you for your cooperation and I hope that everyone has a productive semester.

## Athletic Booster Club to form

Basketball coach Ron Caylor is looking for people who are interested in helping form and develop an Athletic Booster Club. Of particular interest, at this point in time, are people interested in helping promote and support the basketball program. A twenty-one game intercollegiate basketball schedule has been developed with the first game being played at home (DBCC gym) on November 4th.

The initial major objective of the proposed booster club is to obtain spectator support, to get faculty, staff, and students to attend the games. Secondly, some home game per-

sonnel support will be needed for such tasks as scorekeeper, clock operator, shot clock operator, ticket taker, etc. The development of an effective booster club collegiate athletic program.

Let's make our fledgling Intercollegiate Athletic Program a success from the start by becoming involved. Interested faculty, staff and students may call the Varsity Athletic Director's office, ext 6553, and leave your name and telephone number, or contact Ron Caylor at ext 6844.

An organizational meeting will be scheduled in the near future.

## Windsurf Club begins Fall with successful sailboard race

Welcome back to another fall trimester, returning club members all know that this is the time to start looking for your short board and small sails. Speaking of small sails, the club just recently purchased a new Aerotech 4.6 meter draft-speed sail for those high-wind fall afternoons. Also purchased was a new Fanatic Copex Cat from Sandy Point Sailboards on Riverside Drive. This brings the club fleet up to three boards and two rigs.

Our first race of the season was a great success! Riddle Sailors dominated the first Sandy Point Regatta on August 31st. In the open-unlimited class, Chris Walker, a

DBCC student placed first. Paul Fremont took second followed by Sally Wolfarth (31ER) who is our fastest gal. In the limited class, first place Dan Bilodeau (02ER) and returning series champion Al Wade (19ER) grabbed second. Third place followed by Mike Millon (01ER). Other Riddle Sailors - Joe Colling (19ER); Dan Cabre (22ER); and Ed Hemmy (40ER).

Next Sandy Point race is scheduled for Wednesday, September 14, at 5:30pm (tonight). Same location as before - Sunrise Park.

This Saturday, September 17, there will be a windsurfing clinic at Sunrise park in Holly Hill. It is sponsored by

the club for active club members. We will be teaching beginners the basics, including use of a Dry Land Simulator. It all begins at 11:00am and instruction will commence at 12:00pm. If interested in attending please contact Sally Wolfarth at 255-2718 so she can get you signed up.

On Sunday the team will be road tripping to Lake Minocla in Clermont. The event is sponsored by Central Florida Boardsailors and will be hosting from JC beach. Registration 10:00am - 12:00pm, Skipper's meeting 12:15pm and the racing begins at 1:00pm!! There is room for extra people so please leave a note in Student Activities if interested, P.F.W.

## Public Service Activities Highlight Arnold Air Society Fall

by C/PT Col Toby Whelchel  
AAS Commander

Arnold Air Society (AAS) members are taking time out of their busy schedules to put something back into the school and community. This month, the society will be working with Human Rehabilitative Services to help children from troubled homes. We are also trying to increase public awareness of those servicemen who are Prisoners of War or listed as Missing in Action in Southeast Asia. POW/MIA bracelet sales will begin

soon in conjunction with our public awareness campaign. The Society is looking for prospective new members (pledges). The first pledge meeting, to be held in the Air Force ROTC detachment on the 22 of September at 7:00 p.m., is for interested AFROTC cadets. This is an excellent way for Freshmen and Sophomore cadets to get to know other cadets in the corps and, at the same time, develop vital officership skills needed to survive the competitive AFROTC program.

This fall, the Society organized and ran the refrigerator rentals on the ERAU campus. If anyone has questions about the rentals or problems with their rented unit, please contact AAS through AFROTC. Also, AAS will be giving ERAU students a chance to apply for major credit cards in the University Center. Sophomores, Juniors and Seniors are eligible to apply for a Stars, Amaco and Citibank MasterCard/Visa credit cards. Keep an eye out for future sign up tables in the University Center.

### CLUBS POLICY

- All articles must be either typewritten, double-spaced or on disk (unformatted in Wordstar or Microsoft Word).
- Deadlines for submission of all club material is Wed., 5 p.m., one week prior to publication.
- Photos may be submitted with club articles.
- All submitted material becomes the property of the Avion with the exception of disks.
- The Avion reserves the right to edit all submitted copy.

## Archery Team plans competitions for Fall

by David Farman  
Team Treasurer

The Embry-Riddle Archery Team would like to welcome back all continuing members by saying we hope you enjoyed your summer and kept in practice! Also, on behalf of the team officers, we wish to welcome the freshman class and hope that some of you will choose to pursue the true "sport of kings" during your stay at ERAU.

We have many team objectives this year, including the possible acquisition of our own range. We also hope to compete in various types of competition against other colleges/universities. All students are welcomed onto the team and we wish to stress that no equipment or experience is necessary.

Anyone interested may contact the Archery Team through our team box in the Student Activities office or come and say hello on C&O day.

## Flight Team readies for FIT

by Cris Nicholson  
Public Relations Officer

The Embry-Riddle Aeronautical University Precision Flight Demonstration Team would like to extend a warm welcome to all new and returning students. We are looking forward to a great year.

We kick off the new year with new team officers who were elected in the spring. Succeeding Michael "Rapo" Rapuano as team and knows what it takes to bring home the first place trophy. Steven's vice-president is Brian Florence. The other officers are Cris Nicholson, Public Relations officer; Erika Foster, Safety Officer; Steve Kidder, Treasurer; and John La-Valley, Secretary.

To recruit new members for this term, the Flight Team held a Mass Briefing on Wednesday night. Interested students filled out applications

and are currently being screened. Interviews will be scheduled, and the new members should be on the team by early next month.

In the mean time, the rest of the team is beginning to prepare for our Regional competition at F.I.T. The competition is less than two months away. Practices have begun for both ground and flight events. Message drop will be held on Saturdays as usual, but everyone should be checking the notices daily to insure a good turnout.

Our main goal this term is a regional victory to insure as a chance at the national title in spring at University of North Dakota. Every year that the Flight Team has improved its placing at the National competition. This last year we took fifth in the nation and will be trying hard this year

to continue our improvement.

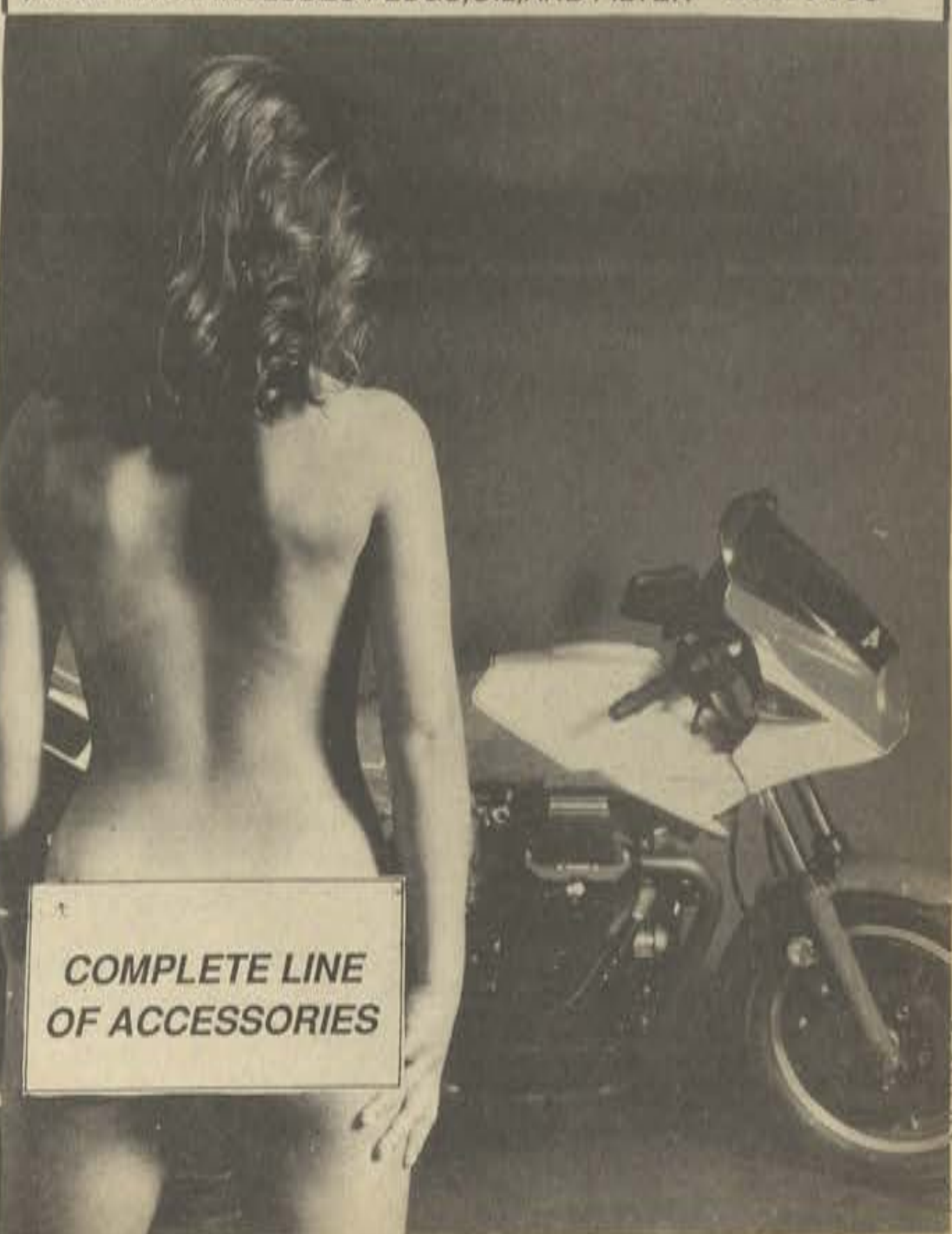
To assist us in achieving our goal we have an excellent coaching staff. Our Head Coach is Mike Wiggins. His assistants include Mason Alrich, Stan Rowe, Frank Loftus, and the team would like to extend a huge welcome to our newest coach, Earl Friesel. The Flight Team advisor is Mr. William Mason. If anyone has any questions about the team, drop by Mr. Mason's office in H-Building, or contact the President at 788-2578. They will be happy to discuss your questions.

Again, the Flight Team welcomes everyone back. We are looking forward to the challenge ahead, and we are confident that with hard work, dedication, and the support of the student body, the team will be ready for F.I.T. in November.

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## Delta Chi plans party plethora

by Rich Hermes  
Fraternity Public Relations

Welcome back brothers, it's good to see a full house again. The house is looking good.

Much credit is due to the hard work and sweat of the brothers who made the house what it is today. The improvements amazed all of us who went home for the summer.

The Fall term is upon us, and that means a killer social schedule. Some

ideas brought up were a deck-break-in party, a Halloween party, a graffiti party, and many more. Those that have ideas for upcoming social should talk to Haus as soon as possible.

Fall Rush has turned out to be very successful. Friday and Saturday's parties were a success. Many visited the house and introduced themselves to the brothers. Those interested in pledging should attend our open meeting tonight at 7:00pm and the

formal on Friday night at 8:00pm.

On a closing note, I would like to congratulate our two new initiates. Welcome to the bond Joe and Ernie! Remember, rush is still underway -- brothers wear your jerseys and be proud to be a Delta Chi.

Important events: Jersey wash nightly at 8:00pm, open meeting tonight at 7:00pm, and a formal on Friday night 8:00pm. Need a ride? Call 255-4767.

## Sigma Chi eager for Rush Week parties

by Jere Thome  
Chapter Editor

The brothers of Sigma Chi hope everyone had a great summer and that you're psyched up to make this year at ERAU your best ever.

To help you get things started, the fraternities on campus are having what we call "rush" weeks. These are a series of social events which give students a chance to mingle and make new friends. As of now, we do not have a definite schedule, so just ask around to find out what's happening when.

If you don't have wheels to get to

parties, call us at 252-2277 and we'll try to arrange some transportation for you. You can also talk to the brothers at our UC booth or anywhere else on campus. We are easily recognizable by our blue and gold jerseys.

Thursday and Friday, the Rod Cross will be in the UC looking for volunteers to give blood. If you've got the time, try to help them out. They are in competition with the mosquitoes.

Again, have a good time! We're looking forward to seeing and getting to know you better in the coming weeks.

## Vet's Club organizing Riddle Regatta

by Sophie Gyory  
Vet's Club Correspondent

Welcome Aboard, new Vets! Come join the Vet's Club and be a part of the most successful event of the school year: the Riddle Regatta, an inner tube race down the Halifax

## Sigma Pi invites you to psych

STOP! If you are looking for brotherhood, friendship, unity, and a good time, then Sigma Pi wants you! Join the up and coming Greek fraternity on campus. Sigma Pi is seeking motivated individuals whose interests are in academics, sports, and partying greek style. If you want to break the norm, then get out of the dorm and come rush with us Sigma Pi.

A warm greek welcome back is in order for the Sigma Pi brothers of the Zeta Beta chapter at ERAU. Finally, after five long years, we come back to our first official "frat" house. Many thanks to Joe, Kevin, Tom, and Ron for their efforts last spring and this past summer towards making our dreams come true.

We extend special thanks to Dr. Horwitz for giving us a great opportunity to grow as a permanent chapter at ERAU.

We had a great first week. The house is looking good, last Sunday's little sisters' Bar-B-Q was awesome, and the party last Friday was well worth the hangover.

Many thanks to our greek brothers and attending students for making our house warming party a nine keg blow-out-bash. It's hard to believe but the "jungle" party was even more of a success. This is Rush Week so lets gear up and get PSYCHED! All our brothers need to join together and prove that Sigma Pi is the "Ultimate Fraternal Experience".

## Ninety Nines seek a few good women

by Susan Selig  
Ninety Nines President

The Ninety Nines are looking for a few good women to join them in aviation related fun this Fall. To find out more about our international organization (originally begun by Amelia herself), come to our table in the U.C. today between 9:00am and 4:00pm. Student pilots are also welcome in the campus organization of Ninety Nines.

River.

The Vet's Club is open to veterans, non-veterans, reservists, and future veterans, as well as to veteran college students in local colleges and universities. We are mostly a social club, but we do run fund-raisers to help defray

This Fall semester has already started with an interview with an original 99, Faye Gillis Wells (see related story page 14), and a lecture on aircraft composite materials. Our thanks to Mike Williams and AMT.

Upcoming activities include a campus meeting on September 26 at 7:00pm in B513. Dues are \$10 with t-shirt order or \$5 without. Dues will be collected at this meeting. If you wish to apply for in-

party costs.

This fall's social event agenda includes the Welcome Aboard party (September), a trip to see the Shuttle launch (hopefully), the Riddle Regatta on October 8, a Halloween party, and a semi-formal Christmas party.

The next Vet's Club meeting is on Friday, September 16 at 8:00pm in the CPR in the University Center.

Also, check us out on Clubs and Organizations Day on September 21, also in the U.C.

International affiliation with the 99s. Bring a copy of your license, medical, applicable BFR's, and a check for \$45.

On November 12, the ERAU 99s will join the Spaceport Chapter to paint a compass rose a local airport. We are open for other activities, so speak up at our next meeting. In the meantime, introduce yourself at our club table today.



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Clint McHenry  
1986 U.S. Aerobatic Champion

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**AEROBATICS 25 CLUB** - For 25 members receive the team patch, decal and the Friend of the Team Certificate.

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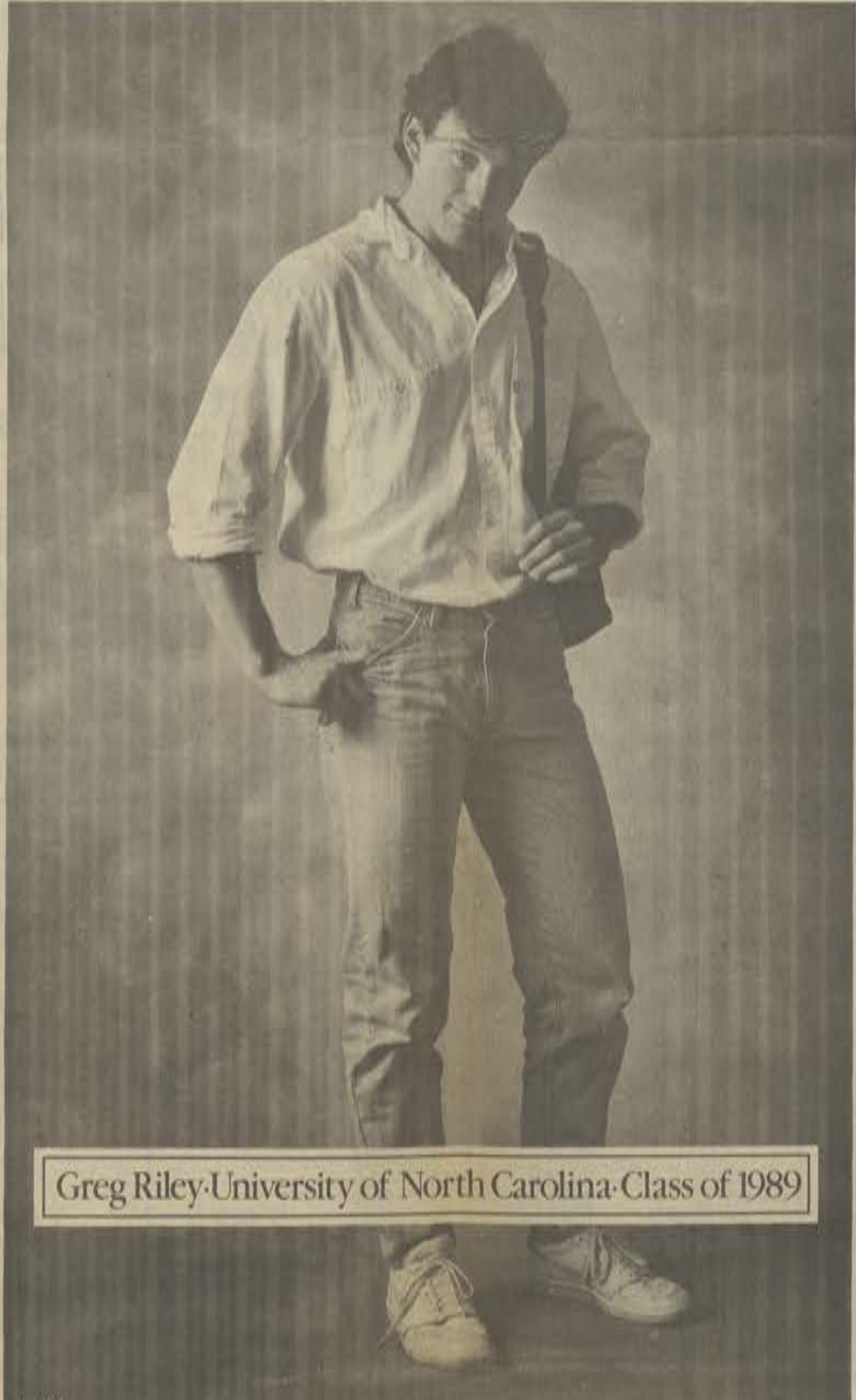
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Greg Riley-University of North Carolina-Class of 1989

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<p><b>88 MERCURY TRACER</b> 3 dr., red, tan velour int., 4 cyl., 5 spd., air, PS, PB, AM/FM stereo, sport wheels, low mileage. <b>\$7999</b></p>	<p><b>87 TOYOTA CELICA GTS</b> Bronze, matching cloth int., 4 cyl., 5 spd., air, PS, PB, power windows, cruise, alloy wheels, sunroof, only 19,000 miles. <b>\$12,999</b></p>	<p><b>84 TOYOTA CUSTOMIZED VAN</b> Gold, matching cloth int., auto., air, PS, PB, AM/FM stereo, cassette, power windows, tilt, cruise, alloy wheels, fully carpeted, captain's chairs, running boards. <b>\$7999</b></p>		<p><b>85 FORD E-150 HI TOP VAN</b> Blue, matching velour int., auto., air, PS, PB, AM/FM stereo, cassette, tilt, cruise, new tires and wheels, fully carpeted, captain's chairs, running boards. <b>\$11,999</b></p>	<p><b>88 PONTIAC FIERO T-TOPS</b> Red, grey cloth int., 4 spd., air, PS, PB, AM/FM stereo, cassette, only 8000 miles, alloy wheels. <b>\$9999</b></p>	<p><b>85 MAZDA RX7 GSL</b> Silver, maroon velour int., 8 spd., air, AM/FM stereo, cassette, power windows, cruise, alloy wheels, sunroof, low mileage. <b>\$9699</b></p>
<p><b>87 MAZDA 323</b> 4 dr., grey, matching cloth int., 4 cyl., 5 spd., air, PS, PB, AM/FM stereo, cassette, one owner. <b>\$7999</b></p>	<p><b>86 MAZDA RX-7 GXL</b> Maroon, matching cloth int., auto., air, PS, PB, AM/FM stereo, cassette, w/CD player, power windows, electric sunroof. <b>\$12,999</b></p>	<p><b>84 TOYOTA CAMRY</b> 4 dr., gold, matching cloth int., auto., air, PS, PB, AM/FM stereo, alloy wheels, only 48,000 miles. <b>\$7699</b></p>		<p><b>86 MAZDA B-2000 CAB PLUS</b> Red, grey int., 4 cyl., 5 spd., air, PS, PB, AM/FM stereo, cassette, steel, stepbumper, only 30,000 one owner miles. <b>\$7999</b></p>	<p><b>87 SUBARU GL</b> 4 dr., blue, matching cloth int., 4 cyl., 5 spd., air, PS, PB, AM/FM stereo, sport wheels, only 14,000 one owner miles. <b>\$8999</b></p>	<p><b>87 CHEVY SPECTRUM</b> 4 dr., bronze, matching cloth int., auto., air, PS, PB, AM/FM stereo, low mileage, back of seats. <b>\$6999</b></p>

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# Pioneer Aviatrix speaks to 99s

by Dan Mangano  
Avion Photo Editor

On Wednesday, Aug 31, the Embry-Riddle Aeronautical University Chapter of the 99s hosted guest speaker Fay Gills Wells, a charter member of the first 99 chapter. Wells



photo by Dan Mangano

was one of the 117 licensed women pilots invited to attend the first meeting in 1929. Mrs. Wells first met Amelia Earhart at that charter meet-

ing. Earhart was "the last great heroine," said Wells. "She did such daring things...She made people look up at the sky instead of down at their feet during the Depression."

Wells learned to fly at age 20 after dropping out of Michigan State University. flying became a lifelong love as well as a career. "I flew around airshows and told people how easy it was to fly."

Wells was among the first group of Americans to live in the Soviet Union in the 1930's and became the first woman to pilot a Russian aircraft. She became an aviation expert and foreign correspondent for the *New York Herald Tribune*.

Wells has many exciting stories to tell of famous people and faraway lands. She met her husband in Russia, honeymooned in Ethiopia, and gave birth to a son in Angola. She accompanied presidents Johnson and Nixon on many trips as a part of the White House press corps.

Although at age 79 Wells no longer holds a current pilot's license, she is still an active member of the 99s which currently boasts 7000 members worldwide. She has devoted a great deal of time and effort to the International Forest of Friendship in Atchison, Kan., a living memorial to the history of aviation.

Wells suggests that all women aviators become involved in organizations such as the 99s. The ERAU chapter has approximately 20 members who will be represented at C&O day, Wed, Sept 21. Anyone wanting more information should stop by the UC on that day.

The ERAU chapter of the 99s and the entire University would like to express our appreciation to Fay Gills Wells for visiting and extend the invitation to return soon.



photo by Rick Green

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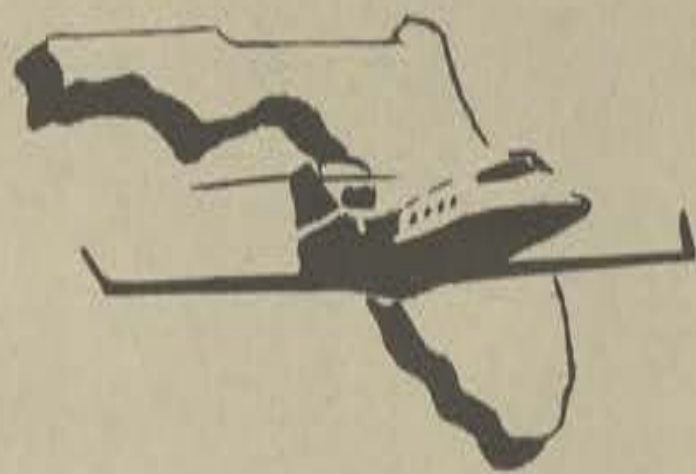
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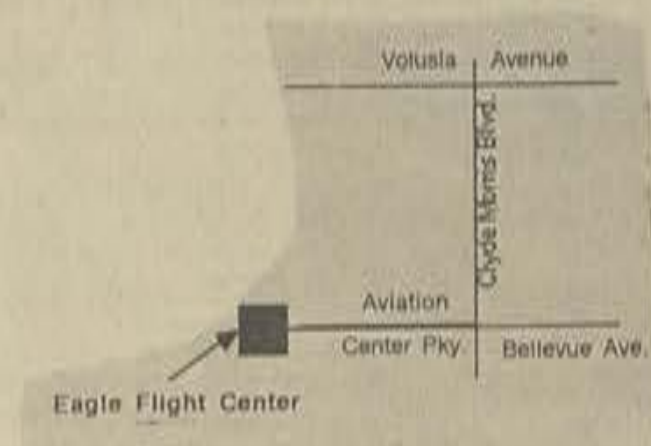
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# Campbell — Soviet

(Continued from page 26)

Faculty Senate and serves on the Standing Committee for Advisement. Campbell was the keynote speaker for the August 1987 Senior Academic Achievement and Involvement Luncheon, honoring students who maintain a cumulative GPA of 3.5 or better, and those who serve as President of a University club or organization.

Campbell was instrumental in starting the Omicron Delta Kappa Honor Society at Embry-Riddle. ODK recognizes students who have attained a high standard of achievement in collegiate activities.

Campbell was once an adviser to the *Avion* and the *Informant* (the forerunner to the *Avion*). He has also been a member and an officer in the Vets Club at ERAU.

Campbell served as a Diesel Mechanic in the amphibious forces of the United States Navy during World War II. He spent most of his time in the Pacific and was present at the first peacetime test of the Atomic Bomb, "Operation Crossroads", at the island of Bikini in July of 1946.

Campbell is married, with three children and four stepchildren, one being a student at Embry-Riddle majoring in Aviation Business Administration. He enjoys drawing, painting, and calligraphy when the opportunity arises.

Campbell and his wife Nancy en-

joyed a trip this summer (before his surgery) which included tours of Monticello, Washington D.C. (museums, art galleries, and the Air and Space Museum), Dayton (the Air Force Museum), Dearborn (the Henry Ford Museum), St. Louis (the Arch Museum, the Transportation Museum, and a couple of Cardinal games), and a visit back to his hometown of Marshfield, Wis. for the first time in 40 years. "There are still only 19,000 people in the town so you can imagine how much it has changed since I was last there."

When asked about the future, Campbell simply said, "Retirement holds no attraction for me. I am doing what I love to do - and they are paying me for it! I'm having the time of my life!"

Roger Campbell definitely belongs in the classroom. Former students are quick to praise him for his knowledge and enthusiasm. One student said, "I loved his class. He's a great teacher." It's very rare to hear students speak about classes outside of their major with such enthusiasm at Embry-Riddle. It is a testimony to the fact that Campbell is doing what he is meant to do: teach.

Everyone at the University is extremely thankful to have such a man on our side and we are grateful for his rapid recovery. Roger Campbell is an inspiration to us all.

(Continued from page 15)

out of context. "He meant that, when they get around to putting a crew on board, it makes sense to go with a two-man crew. But they definitely are going to go unmanned at first."

Like the U.S. shuttles, the Soviet spacecraft can fly by computerized remote control. And, whether they are manned or not, the United States will be closely scrutinizing their first few flights to see how their slightly different wing design performs during landing and whether the shuttles have a means for removing a crew from the vehicles during an emergency.

The Soviets have said they see the main purpose of their shuttle as being not so much to orbit payload but to return cargo such as completed scientific experiments and space station parts in need of repair. With an array of unmanned, expendable launch vehicles ranging from the smallish Vostoks to the workhorse Protons to the massive Energias, they see little need to use the shuttles to carry standard payloads.

The Soviets will use their shuttles "for the same things we use ours - basically man-in-the-loop missions," says Charles Vick of the Alabama Space and Rocket Center in Huntsville. "They'll use it for repair,

recovery and return missions, major construction missions."

The vehicle also will be for hire. "Glavkosmos is advertising the fact that when the Energia and the shuttle are developed they will be available for commercial purposes," Vick says. "I can tell you right now that European nations and certain Third World countries are designing satellites for U.S. technology that would be able to be adapted to Soviet launch vehicles. So it will be utilized by other countries."

Over the long term, the shuttles' primary use will likely be to service a massive new space station that the Soviets are expected to build in the mid-1990s to supplant the Mir and Salyut-7 stations currently in orbit. The U.S. Defense Intelligence Agency projects that the Soviets will fly about 10 shuttle missions a year in the middle of the next decade and that seven will be needed to support that station.

Many observers also believe the shuttle fleet will permit the Soviets to perform military operations on a larger scale and in much more secrecy than previously possible. Intelligence experts have been able to determine the content of some secret Soviet payloads by analyzing the configuration of the various launch vehicles, but that will prove much more dif-

ficult with shuttles that always appear the same from the outside. Also, the shuttles will be able to deploy secret payloads out of range of Western tracking equipment; defense analysts say that could allow them to put small space mines or other "killer satellites" into geosynchronous orbit for later use.

They may also use the shuttles to help further their version of the Strategic Defense Initiative. "Something that would be a real weapon, a particle-beam or laser weapon big enough to worry you clearly would be too big to go on their shuttle," Pike says. "But if you're talking the types of stuff that our SDI organization had done and will do, I'd be surprised if they didn't do that. You can take a very expensive piece of hardware up there, do your business, bring it back and re-fly it."

That capability to move payloads back and forth easily and efficiently is, beyond all else, the reason the United States and the Soviet Union have pursued shuttle programs. The visionaries who guide the Soviet program like to refer to Baikonur's barren landscape on the steppes of the Kazakhstan Republic as "the shore of the universe," and they see their shuttles as the ships that will ply the vast sea of space more frequently and fruitfully than ever.



Avion has launch priority Delta

## Free tutors available for classes

by Phyllis Salmons

Several departments at Embry-Riddle provide free tutoring services to ERAU students. Free tutors are available in Accounting, Aeronautical Science, Mathematics, Physics, Chemistry, and Writing.

### Accounting

Accounting tutors are available for MS 210 and MS 212. The accounting tutors are located in A-108. The hours of availability were not known at press time, but they will be posted on the of A-108 as soon as possible.

### Aeronautical Science (AS 150)

In the Aeronautical Science

Department students may take advantage of the Directed Study Program specifically designed to aid students taking AS 150. Topics will be posted in the GRW complex weekly, although other subjects may be discussed as well.

A student may receive individual as well as group help. It is highly recommended that students making a "C" or lower take advantage of this free assistance. Students are not required to stay for a specific amount of time, and may leave when questions have been answered.

The Directed Study Program will be held on MW 7:00pm to 9:00pm in G-109 and G-112. The coordinator is

Professor Dana Middlekauff, office H-123 (ext 6858).

### Mathematics, Physics and Chemistry

The Mathematics and Physical Science Department provides tutors at no charge in room A-106, weekdays 10 am to 4:00pm. The department offers assistance in a wide variety of courses such as Algebra, Calculus, Statistics, Physics, and Chemistry.

The coordinator of the Mathematics and Physical Science Tutorial Program is Dr. Shrinivas Dalal, office A-247 (ext 6658).

### Writing

The Humanities Department provides students with free help at the

Writing Center, which is staffed by students who have been specially trained. The Writing Center will help students with any course on campus requiring written assignments.

The Writing Center is located in room A-106 and is open weekdays from 8:30am to 3:30pm.

The coordinator of the Writing Center is Professor Ann Magaha of the Humanities and Social Science Department, office A-214 (ext 6638).

All students are encouraged to take advantage of the free tutorial services offered by these departments. Private tutors may also be available with payment negotiable.

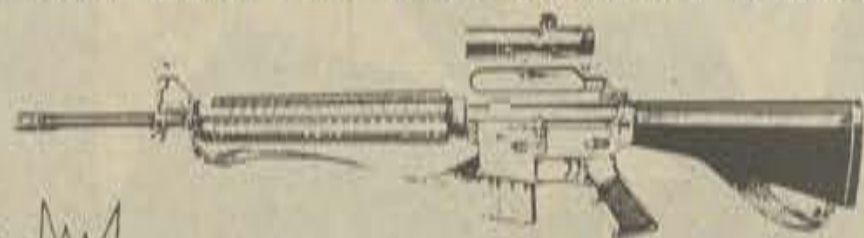
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Avion has launch priority Delta

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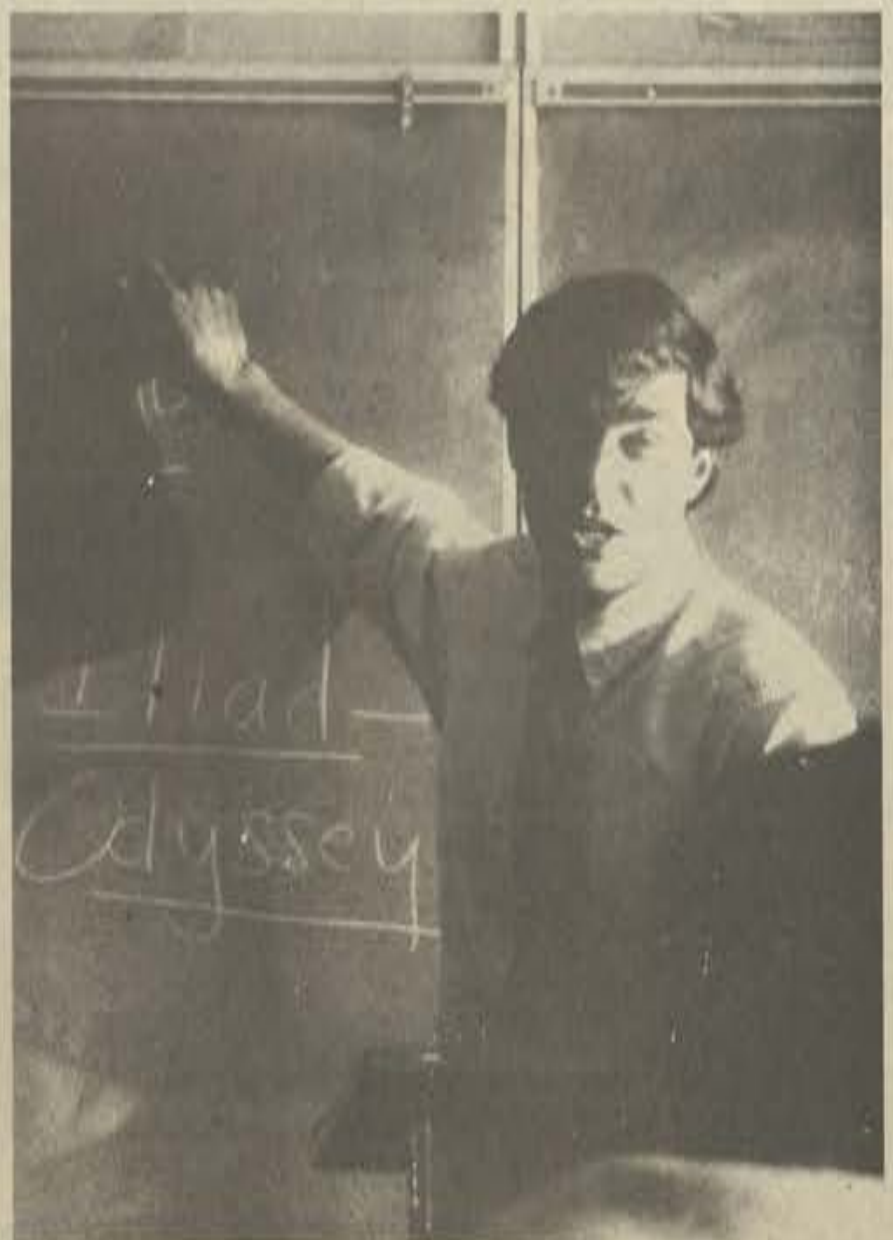
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**Mathematics/Science Seminar**

Dr. Ray Whitford will at the first MA/PS Seminar of Fall 1988. His topic is "Aerodynamics of Combat Aircraft." Seminar will be Thurs, Sept 22 at 1:30 in the Riddle Theater (A-201). Students are welcome.

**Sigma Chi Blood Drive**

A blood drive will be held in the U.C. on Thursday and Friday, from 10:00am to 4:00pm, September 15 and 16. The blood drive is sponsored by Sigma Chi fraternity.

**C & O Day**

The Student Activities Office will sponsor Club and Organizations Day in the U.C. from 9:00am to 4:00pm, Wednesday, September 21. Get involved! Join a club or organization!

**Counselling Center Fall Programs**

**Communicate! An Experiential Group**  
One of the largest pitfalls in today's relationships occurs because of the misconception that cause conflict between people. Statements such as "I can't understand my boyfriend/girlfriend/the other sex..." will be addressed through viewing video clips from current popular television programming. The group will meet weekly for four two hour sessions, during the weeks of September 12 - October 3.

The group size is limited. Interested persons need to make an appointment, to discuss the group, in the Counselling Center during the week of September 6 - September 9.

**Improve Your Reading Memory**

Approaches to reading that can cut down the time spent and increase your comprehension. Thursday, September 8 - 1:30pm to 2:45pm in the Common Purpose Room of the University Center.

**Test Taking Tips**

Learn ways to prepare for tests, combat anxiety, and take exams efficiently. Thursday, September 15 - 1:30pm to 2:45pm in the Common Purpose Room of the University Center.

**Self-management and Motivation**

Learn how to manage your time and money so that you can relax without guilt. Also learn how to get going when you get up and go has got up and went. Thursday, September 22 - 1:30pm to 2:45pm in the Common Purpose Room of the University Center.

**Kick a Habit**

An experimental group. Learn how to rid yourself of a troublesome habit such as smoking, over-eating, phobias, procrastination, tardiness, worrying or unhealthy relationships. The group will meet weekly for four two hour sessions, during the weeks of October 3 - October 24.

The group size is limited. Interested persons need to make an appointment during the week of September 26 - September 30.

**Wellness Week**

Seminars, clinics, and displays on the areas of health, fitness, nutrition, and mental health will be sponsored throughout the week by the Counselling Center, Health

Services, and Recreation between September 26 - September 30.

**Lecture Note-taking**

Information on how to efficiently take legible, helpful lecture notes. Thursday, September 29 - 1:30pm to 2:45pm in the Common Purpose Room of the University Center.

**Self Hypnosis for Relaxation**

Learn techniques that will allow you to relax more readily and easily through self hypnosis. Friday, September 30 - 1:30pm to 2:45pm in the Common Purpose Room of the University Center.

**National Alcohol Awareness Week**

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

**Lonise Bias Presentation**

The Campus Substance Awareness Committee is sponsoring a presentation by Lonise Bias, mother of the late Len Bias, on substance awareness. This event will be in the evening on Monday, November 7. For more information, call 239-6035.

**FAA Pilot Written Exam Schedule**

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

- 1. (PA) Private Pilot -airplane

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

September 16 -Friday, 8:30am in A-111.  
September 24 -Saturday, 8:30am in 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 6800 prior to examination day.

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

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

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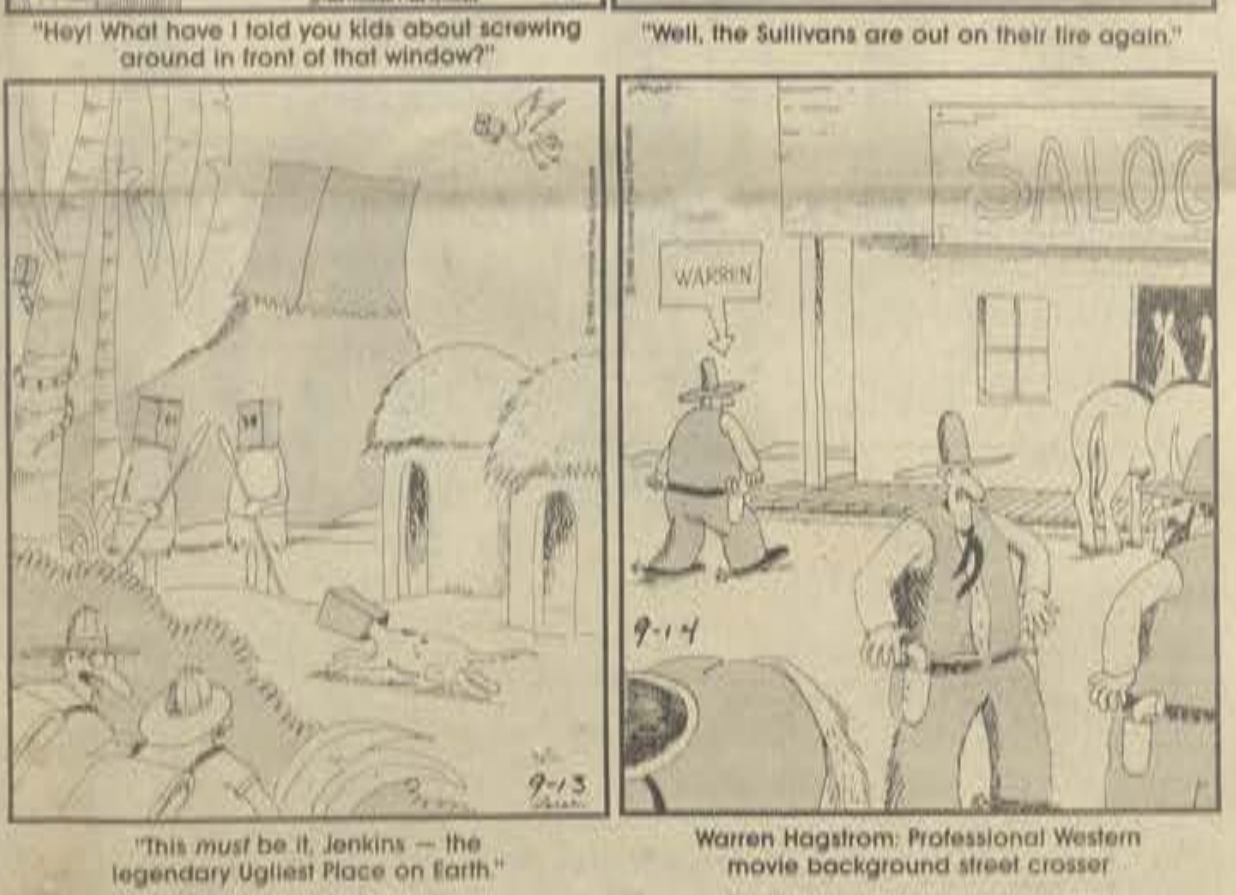
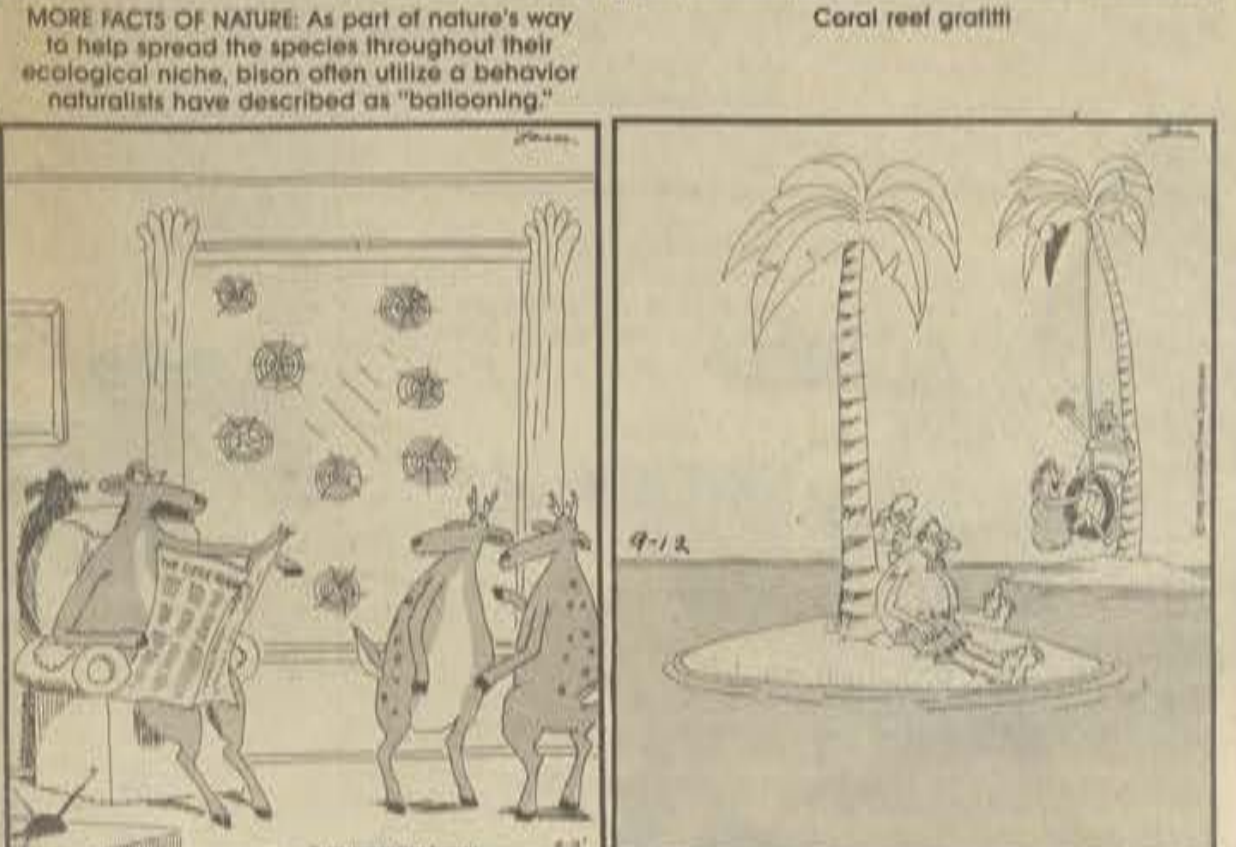
The Far Side

Gary Larson



Bloom County

Berke Breathed





**You've got something other people  
are dying to have.**



Photo: Johannesburg, South Africa 1985, AP/Wide World Photos

# **REGISTER AND VOTE**

**National Student Campaign  
for Voter Registration**

A project of Public Interest Research Groups  
in cooperation with student governments and other campus groups

National Campaign Office: 215 Pennsylvania Ave. SE,  
Washington, D.C. 20003, (202) 547-5860



### Autos for sale

1977 FORD PINTO -- good condition. \$200 orOBO

1977 FIAT 124 CONVERTIBLE SPYDER -- orange with brown top. Needs work. \$300 OBO. Call Man 760-1213

1980 AMC Spirit -- Good Condition. \$950 or best offer. Contact Mary at box 6709 or 767-0778.

1983 TOYOTA CELICA GT -- Liftback, AC, 5 spd, RPT, cruise, tilt, cloth int. New exhaust, tires & battery. No rust, runs excellent. \$4200 or B.O. 258-8971

1980 OLDSMOBILE CUTLASS SUPREME -- Excellent condition. AC, am/fm cassette, cloth interior. PS P/B PW \$2600 258-7813.

### Cycles for sale

SUZUKI 1979 GS-URRUB -- with timing, extra exhaust and many extra's. \$1000 or best offer. Call Dave 672-4777.

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

1980 HONDA CB650 -- \$750 or best offer 441-7070 in afternoon/evenings. New battery, airshocks, windshield, Hi/Lo seat/sissy bars.

FOR SALE: HONDA 400 MT -- Very dependable transportation, good for new students. \$350 O.B.O., Call Majid at 238-0804.

FOR SALE: 82-SP 125 MOTORCYCLE -- Great transportation for anywhere. Mountcycle runs good. No problems starting. One owner, asking only \$595 or best offer. Call John at 257-6982.

Drive something different, fun, exciting. Drive this cycle car. \$6500 or best offer over \$6000 1-428-3026 after 6 pm

1987 KAWASAKI NINJA 1000R -- 7000 miles, excellent condition, all black, 160 mph. Included is a helmet and tank bag. \$4400 negotiable. Call now 257-4265.

### Roommates wanted

FEMALE ROOMMATE WANTED -- to share 2 bed 2 bath apt in fully furnished except kitchen bedroom. Must have own transportation, 6.5 mi from campus. Included: washer, dryer.

FURNISHED ROOM FOR RENT -- Only 1/2 mile from ERAU. Rent includes: electric, water, heat, air, central air, washer and dryer, cable tv, telephone. furnished. No lease is required. Call 257-6982.

NEW 1 BEDROOM CONDO -- 2 miles north of ERAU, weatherlight. No pets. \$350 monthly, plus deposit. 673-6224 (leave message).

Female needed to clean house for college students. Part time only. \$5 per hour - make your own schedule. Call John at 257-6982.

### Miscellaneous

MOVING SALE -- University Physics by Sears (latest ed.) - \$30 Women's bike (Murrey) 10 speed - \$50 p.h.a. Women's bike (Huffy) 10 speed - \$80 Interneted contact Mana at 788-0731 after 5 pm.

DON'T RENT! -- Buy a dorm size fridge for the price of two semesters renting - 40 bucks! Also used books: Modula for writers - \$10, Sound & Sense - \$10, 7 content short novels - \$10, Dimensions in Drama - \$10, Story & Structure - \$10, Intro to Business & study guide - \$25, Basic Tech Math w/calc. - \$25/Call 258-0046 ask for Mike or Tony or stop by River Point, Apt. #30.

Honda electric guitar -- Strain easier easy whammy bar w/case \$150. Call Matt 252-3880.

Technics 3-way speakers w/12" woofers \$112. Great plasma H.F.D. radio controlled airplane \$125. 14" wide grip leather racing wheel, perfect for Mustangs \$50. Call Sergio @ 756-1317.

Study desk with three drawers, side table and chair, very good for new students, only twenty dollars for all. Contact Majid at 238-0804.

Twin bed including frame, boxspring, mattress. \$30. Study desk with drawers \$40. Both in excellent condition. Darren 258-7813.

TYPEWRITER, IBM SELECTRIK -- heavy duty, for sale \$50. Call 761-7555 ask for Margaret or leave message.

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

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

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

INSTRUMENT WRITTEN VIDEO COURSE -- 12 hrs. of video by ATC. Includes all new questions and answers. Rent for \$45. 758-9349

FURNITURE FOR SALE -- couches, chairs, coffee and end tables, lamp at misc.

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

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

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

SCHOLAR WRITING SERVICES -- Typing: resumes, term papers, letters, manuscripts. Tutoring: english, grammar, writing, resumes. Spelling and grammar checked. 5 min. from ERAU on S. Clyde Morris. Pick and delivery available. Letter quality printer/Word Processor. Call Leslie Santamaria 760-1112.

NEED TO PASS MATH?? -- If you definitely want to pass algebra or trig this trimester don't hesitate, call 673-6492 and secure a passing grade.

Get your private or commercial certificate without the frustration. Also Bi-annuals given. Variety of aircraft to choose from. Call Matt Van Buren at 255-9131 (if not home please leave message.)

FLIGHT INSTRUCTION -- ERAU graduate will give flight instruction for \$5/hr. Bi-annuals free. PVT to CFI. Call 257-1759 anytime.

Bass player is looking for guitarist, drummer and possibly keys (no toys) to jam and maybe play parties. Not looking for serious commitments, just to have a good time. Even if you're not Joe Satriani call anyway. Contact: Larry at 257-1290.

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

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

POLYTECH AK47 -- 3-30 round clips, cleaning kit and 400 rounds ammo. Call Jeff at 788-7837.

Flight computers -- AVSTAR and PATH-FINDER. Call 253-7424, after 6 pm.

Death Row prisoner, caucasian male, age 42, desires correspondence with either male or female college students. Wants to form a friendly relationship and more or less just exchange past experiences and ideas. Will answer all letters and exchange pictures. If interested, write to Jim Jeffers, P.O. Box B-38604, Florence, Arizona 85232.

### Personals

GRULA, Te quiero siempre. MANZANITO

"When you leave New York you ain't going anywhere." JTE

April 29 is the Day! T.

ROB Tracy & I would like to reserve 2 seats for the hearing.

TO MY STALLION C/P Congratulations on passing your C/P test! LOVE TOY. WITHOUT A DATE.

MIKE Z My birthday is Oct. 16 and you'd better not forget it! PHIL BABB

WE'RE LOOKING FOR A FEW GOOD MEN. (and we're not the Marines)

Welcome back Pete, Mr. Endy, Soph, Chris, Mark, and Red Baron. Lets make this a great and fun year. TWO-STITCH

To Rebel, Droopy, Kermis, Tex, Lemmy, Eli, Dutch, Bonasi, Chilly, Saint and the, as yet, nameless: snipe season is in full swing in Canada, eh! Happy hunting, Oomphah.

HAPPY B-DAY PETH and JOE! 2nd South

"It's too bad the w/o't live. But who does..." like tears in the rain..."

### CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising is free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- ➔ All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- ➔ Commercial advertising is available through the Avion advertising department.
- ➔ Classified advertising is carried out by filling out a classified ad card in the Avion office.
- ➔ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- ➔ Ads will run for two issues and may be renewed by filling out another classified ad card.
- ➔ No classified ads will be accepted over the phone.
- ➔ For more information, stop by or call the Avion office at (904) 239-6049.

IBM PC FOR SALE -- EGA graphics, 640 KB Ram 2.5 1/4" floppy drives \$1,250 or best offer. Call A.J. at 788-1078 after 6 pm.

REFRIGERATOR -- Sears Kenmore - 6 cubic feet (4 times larger than normal dorm ref.) with freezer section. 3 months old - new condition. \$200 firm - will deliver. Call Scott 252-3778.

ATTENTION EL 106 STUDENTS -- For sale: textbook, and \$200 worth of tools for only \$50. Can be sold separately. Contact Matt at 253-8517 or ERAU Box 6767.

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

WINDSURFING BOARD -- windsurfer 12', excellent shape, nice colors on sail + 1 high wing daggerboard \$300. Can include lessons if needed. Call Peter at 767-7649.

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

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## Faculty Profile: Roger Campbell

by Phyllis A. Salmons  
Avion News Editor

On Friday June 17, 1988, Professor Roger Campbell underwent quadruple by-pass heart surgery at Ormond Memorial Hospital. At 7:30am on August 31, Campbell taught his first class of a full schedule for the Fall 1988 semester. Everyone who knows Roger Campbell is extremely excited that he is back.



photo by Mary Pennington-Lopez

A Natural...

Roger Campbell definitely belongs in the classroom.

"I'm happier than a hog in strop to be here," said Campbell. "I'm just a survivor." Campbell says he is fortunate that he did not have a heart attack. "Circumstances could have been much worse. Believe me, it's a sobering experience."

Professor Roger Campbell started teaching at Embry-Riddle Aeronautical Institute in the Fall of 1966, just one year after the move to Daytona Beach from Miami. "Embry-Riddle has come a long long way since those days. Back then, all registration for classes was done by hand with no machines. You know, it worked every bit as well as the current method."

When asked to compare the

Embry-Riddle student of the past with the current students, Campbell commented that when he first started, the average student at ERAU was older than today's student. Many of our students in the late 60's and early 70's were Vietnam veterans.

"There was a seriousness about them. They played hard and they worked hard." In regard to playing hard, Campbell referred to students

new students appear. Campbell, however, added a new dimension to that thought. "What gets me is their parents look so young!"

Campbell shared his first office with a variety of instructors originally from Germany, Iran, China and Cuba. "The office was a regular Tower of Babel. Somehow, we were able to communicate." At that time there were only a few buildings used: a hangar for the A&P and flight courses, a building for classrooms and faculty offices, and a cottage for the administration.

Campbell says that compared to those days, the current facilities are "simply miraculous." One nice thing back then was "everybody knew everybody and that is something we have lost."

Professor Roger Campbell was educated at Florida Southern College in Lakeland, Fla., having earned a B.S. in Arts and an A.B. in Psychology. He completed a Master of Arts degree in American Studies from Stetson University in Deland, Fla.

Campbell began teaching in 1951. Having taught elementary, junior high, and high school, he is now in his 23rd year in the Department of Humanities and Social Science at Embry-Riddle. In that time, Campbell has taught American, Current and World History, American Foreign Policy, American National Government, Geography, Sociology, Philosophy, Logic, and Religions of Man.

Campbell has served the University by serving as the Department Chairman of the Humanities and Social Science Department on two different occasions and as Acting Department Chairman for a total of approximately seven years. He served on the University Curriculum Committee and as the faculty resource representative to the Embry-Riddle Board of Trustees.

Campbell is the mace bearer, the first person in the graduation procession, at the Embry-Riddle commencement.

Campbell was the first Chairman of the Academic Faculty Association, the predecessor to the Faculty Council and the current Faculty Senate. He is currently the alternate representative for his department for the

See CAMPBELL, page 21

## Career Navigator: the Career Center offers career help

by the Career Center

Greetings from the Career Center staff. This is the first of a series of articles that will be written by the Career Center staff. The purpose of the column is to provide you, the students of Embry-Riddle, with timely and direct information about careers in aviation. Through this information you will learn what you can do to prepare for your job search, your transition from college to work and, ultimately, your career.

Cynthia Femrite, the Administrator of the Career Development, spoke to a group of incoming freshmen. At the end of the presentation, several of the orientation leaders, who are upper-classmen, approached her with a consistent response. "I wish I had heard of this three years ago."

It is our intent through this column to give away all of our job search and career secrets. The Career Center staff, as part of our jobs, read rooms of articles on industry trends, talk with employers who hire ERAU graduates, and query alumni for answers to the age old question, "What would you do differently?"

We can't promise you that what we write will always be positive and what you want to hear. But if we are to

serve as your telescope into the industry, it is important that we reflect as clear and accurate a picture as possible.

Topics for articles will include:

Getting Started  
The Real Benefits of Co-op  
What Employers Look For In A Candidate  
What The Campus Interview Can And Cannot Do For You

How To Succeed Once You Get Hired

In addition to the information in the articles like these, this column will be used to announce coming events such as Career Day and the Campus Interview Schedule. Through this column we can give you more than the date, time, and place. We will include information about the companies and may even feature certain companies in the article.

We are excited about what we see happening "out there" and how it will affect you, the future professionals of aviation and aerospace. We are also enthusiastic about this opportunity to communicate directly to you, because we feel you need and want to know how to prepare for your part in aviation's future.

## Safety By Awareness: What You Need To Know About Fuels

By Erika Foster  
PFDT Safety Officer

You have just taken off after a fuel stop, it was one of many on this long cross-country flight and you are in a hurry to finish it up. You have never had a problem with misfueling before. The next thing you know is that your engine has failed. You find out later that detonation and overheating caused by the aircraft being misfuelled with jet fuel are the cause of this failure.

Would you trust your life to a total stranger? That is what you are doing when you don't check the quantity and grade of the fuel after being serviced. When you check the fuel observe the color and the odor of the fuel as you visually check the fluid level. Also check the fuel caps to see that they are secure after you are done. You wouldn't be the first pilot to take off with a loose cap or one not on at all. Fuel cascading down the window is not a pretty sight.

When you check the sump, draw a generous sample from each sump into a transparent container. Check for water and any other contaminants in the sample. Be sure to check the fuel tank vent to see that it is clear of restrictions.

Common Questions

Can I use automotive gas in place of avgas?

Don't ever use automotive gas unless the aircraft is rated for the use of automotive gas. The antiknock addi-

tives in automotive gas can cause corrosion, sucking valves, and exhaust valve failure. The high gum and solvent content can cause deterioration of engine and aircraft fuel system seals, gaskets, and fuel lines.

What about fuel additives?

From The Flight Line...

Mr. McDuffee has issued a new addition to the Flight Information File, it reads as follows:

Subject: Crusader Auxiliary Fuel Pumps  
affected engine runs overly rich and engine failure can occur.

Cessna has developed a modification for the system which should alleviate the problem. However, parts are presently not available to modify our aircraft. Accordingly, all pilots should be aware of the possibility of this malfunction and be prepared to take immediate corrective action. In all cases, engine power has been immediately restored once the affected fuel pump switch is moved to the off position. All pilots should be prepared for this contingency.

If difficulty is experienced, we suggest that a landing be accomplished at the nearest suitable airport and that the Aircraft Maintenance Department be contacted immediately.

Paul E. McDuffee  
Chairman, Flight Technology Department  
Note: Future FIF's will be printed here.

## The View's Incredible!

Anytime is the right time to party hearty at the Ocean Deck.

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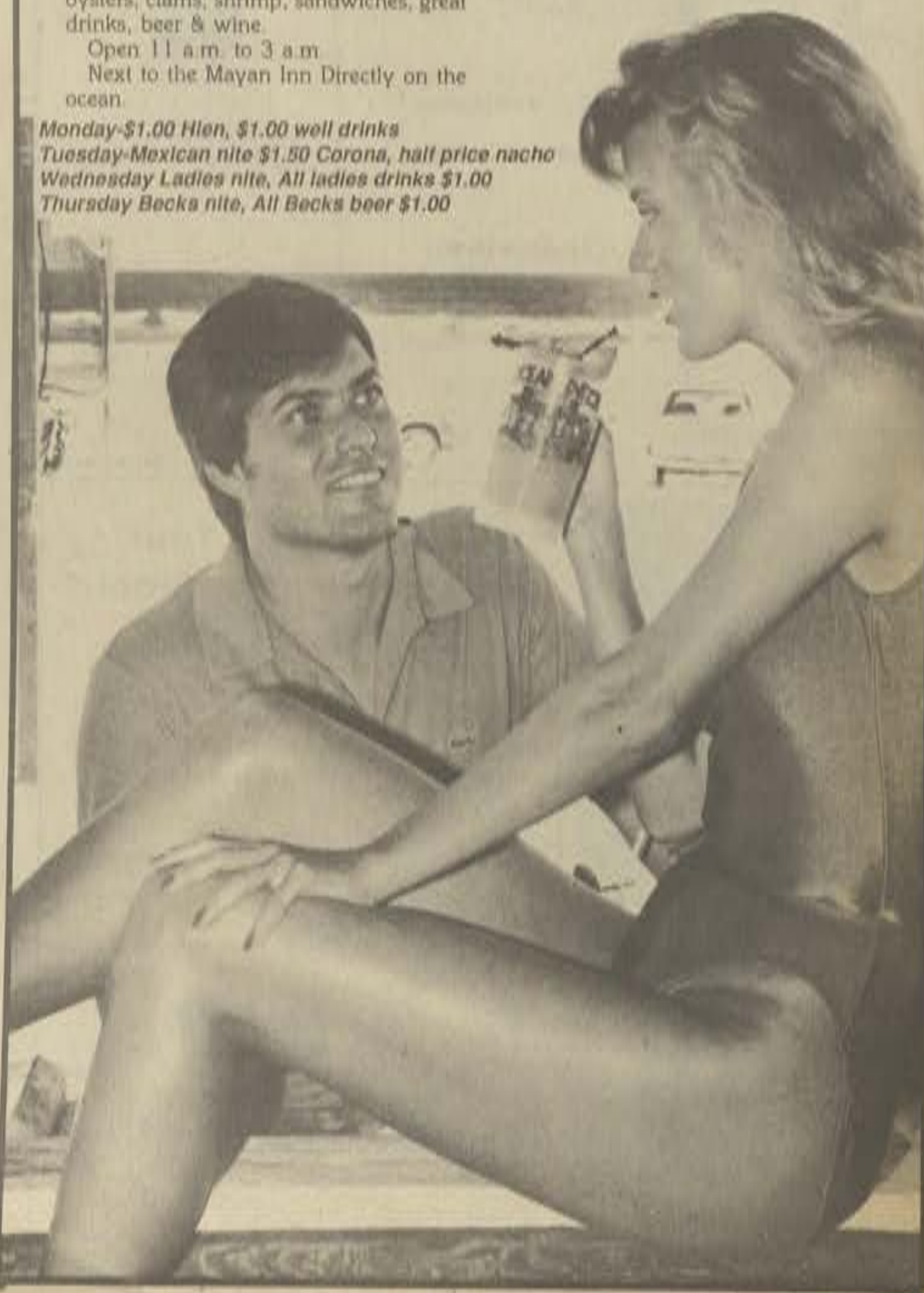
Tuesday-Mexican nite \$1.50 Corona, half price nacho

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Thursday Becks nite, All Becks beer \$1.00

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