

10-19-1988

Avion 1988-10-19

Embry-Riddle Aeronautical University

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New ERAU pilots continue to commemorate and celebrate solo accomplishment in traditional ways, see page 4

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Piper Cadet to replace Embry-Riddle fleet of C-172's

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Rose and Gordon assume leadership of Senior Class

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Avion



An Award-Winning College Newspaper

Volume 60, Issue 5

Embry-Riddle Aeronautical University, Daytona Beach, Florida

October 19, 1988

Experts rap on drugs and flying

by Michael Hotaling
Avion Staff Reporter

The ERAU Substance Awareness Committee sponsored a panel discussion in the U.C. on Monday, October 17. On the panel there were representatives from the National Transportation Safety Board, The Federal Aviation Administration, a lawyer, a doctor, and an aviation management consultant.

The panel responded to anonymous questions from students written on index cards. The questions covered a variety of topics concerning alcohol, substance abuse and general aviation questions.

Representing the NTSB was Dennis L. Jones, an Air Safety Inspector from Washington, D.C., who was a 1979 graduate of Embry-Riddle in Aeronautical Engineering. Jones has been with the NTSB for over eight years and is responsible for conducting aircraft accident investigations for the U.S. government.

Ernest Wilson, another member of the panel, is Assistant Manager of Surveillance Section of the FAA. He

is involved in investigation of incidents and accidents in the Florida region.

A local representative taking part in the panel discussion answering questions on the effects of alcohol and other substances on the human body was Dr. David Yoon, a local family

I wish I were where you people are today with the rate of advancements being far greater than when I was your age...

-John M. Cyrocki

practitioner.

Eric K. Neitzke, a lawyer with the local law firm of Monaco, Smith, Hood and Perkins, responded to questions concerning the legal aspects of alcohol and illegal substances.

As an aviation management consultant, John M. Cyrocki was present to field queries in various areas involving substance abuse as relating to the field of aviation. Cyrocki has held

several positions in the FAA, was a B-29 pilot during the Korean conflict, and held an engineering position with the Allison Division of General Motors Corporation.

Topics for the panel ranged from questions about 'crack' cocaine to how to obtain a position with the

questions, one being, "How dangerous is crack, really?"

In answering this most pertinent question, Yoon discussed the physical effects of crack, and the dangers involved including physical addiction and death from overdose.

Dennis Jones replied to questions relating to aircraft accidents. He cited numerous examples of mishaps that were alcohol or substance related.

One incident Jones spoke of was a crash of a V-tail Bonanza in which the pilot's blood alcohol was measured to be 0.18, well above even the legal limit for automobile operation.

Wilson was directed such questions as "Will CFI's be required to undergo substance testing?"

His response was that "At this time CFI's are not regularly subjected to drug or alcohol testing, but if involved in an accident, they are tested." Wilson also remarked that he is tested yearly for drugs and can be subject to unannounced tests at any time.

see DRUGS page 10



Avion photo by Darryl Mayhew

Supergirl...

A member of Embry-Riddle's sorority, Theta Phi Alpha, concentrates intensely at the tug-of-war event during Greek Week competition this past week. Sigma Chi fraternity eventually won the overall competition in a fierce battle with Delta Chi who came in second.



Avion photo

We are the world...

A local family enjoys a display from India at a previous International Day at ERAU. Officials expect many students and members of the local community to attend.

International Day to be held Oct. 22

by Phyllis A. Salmons
Avion News Editor

Embry Riddle's International Student Services will sponsor the 1988 Annual International Day on Saturday, October 22 in the University Center. Festivities begin at 1:00pm.

Judy Assad, Director of International Student Services, said that students from 17 countries are expected to participate in the activities.

Each country will provide a booth which will display artifacts, crafts, costumes, literature, and posters of their native land. There will be door prizes donated by embassies and several local restaurants. Some of the booths may have items for sale to the public.

Throughout the afternoon, entertainment will be provided by International Students. "We expect to hear native folk songs, have instrumental performances on the guitar and organ, and we hope to get some of the students to dance," said Assad.

The seventeen countries represented at the ERAU International Day activities include Finland, Japan, India, Malaysia, China, Greece, Hungary, Puerto Rico, Argentina, Cyprus, Sri Lanka, Saudi Arabia, Bahrain, Jordan, Brazil, Curacao, and the Caribbean Nations.

Seven of the booths will feature native foods, some to

be cooked on site. For example, the Chinese students will prepare two types of Egg Rolls, the Malaysians will provide Satay, a grilled shish kabob, "It's delicious," said Assad.

The Japanese will prepare teriyaki and students from India will provide a main dish made with vegetables, chicken and rice. Several countries will offer sweet treats, such as the Hungarians, who will provide Apple and Cheese Strudel.

In order to reimburse the students for the expense of the food, tickets will be sold (two for \$1.00) which may be used to buy servings of the native food. "We are not planning to make money. We just want to repay the students for the cost of the food," said Assad. "If anyone has tickets remaining, we will have a box for donations to be used toward an International Student Grant."

To cap off the activities for International Day, the ERAU Skydiving Club plans a jump over campus at 5:00pm Saturday at which time they will display several of the International flags.

International Day activities have been widely publicized to local social studies and language classes. "Last year we had about 1000 people come to ERAU for International Day," said Assad. "It will be an exciting day for our students as well as the community."

Kiser and NASA: a perfect match

by Phyllis A. Salmons
Avion News Editor

Ever since the Math Department's Dr. Lee Kiser was involved in wind tunnel research for NASA at Langley Research Center at Langley Field in Virginia, he has had an interest in time to failure problems and reliability in aircraft components. Kiser said, "If a

component such as an aircraft wing is put under some sort of stress and is observed until it fails, the time to failure may be considered as a continuous random variable in probability theory. One of the most important failure laws is one where time to failure is described by the Gamma probability distribution."

Kiser, an Associate Professor of Mathematics, has done research on the Gamma function for years. He has recently been asked to give a one-hour presentation entitled *Historical Perspectives on the Gamma Function and Recent Applications* to the first International Conference of the American Mathematical Association of Two-Year Colleges (AMATYC) in Calgary, Alberta, Canada. Kiser will make this presentation in late October.

In addition to time to failure problems, Kiser has also worked at NASA on projects dealing with the design of nose cones of re-entry vehicles. He worked in programming and partial differential equations dealing with various nose cone shapes using curve sketching techniques and data gathered from a Mach Four wind tunnel.

Kiser earned his Ph.D. in Mathematics Education Curriculum and Instruction for the University of Florida. His doctoral dissertation was entitled *Spatial Ability and Field Mode in a Computer-Enhanced Presentation of Linear Inequalities: An Aptitude Treatment Interaction Study*. He obtained a Master of Science from Ohio University in Pure Mathematics and did post graduate course work at Virginia Polytechnic Institute and State University in Applied Mathematics.



Dr. Lee Kiser

His undergraduate degree is from Berea College in Pure Mathematics.

Kiser has been teaching for 21 years and has taught at Embry-Riddle since 1982. Prior to Embry-Riddle, Kiser worked for three years as an Assistant Professor of Mathematics at Bethune-Cookman College in Daytona Beach and for five years as Division Chairman of Developmental Studies Division and Instructor of Mathematics at Coastal Carolina Community College in Jacksonville, N.C. He also served as an Instructor of Mathematics for six years at Virginia

Polytechnic Institute and State University.

"I love teaching and I always have," said Kiser. "In my opinion, success is doing what you love to do and getting paid for it."

Computer Enhanced Instruction (CEI) is another area in which Kiser has become very excited. "There are many times in the classroom where an intervention with the computer could enhance instruction tenfold," said Kiser. "I hope we at Embry-Riddle are heading in a direction of facilitating CEI in our classes."

Kiser has published several articles on Computer Enhanced Instruction in the *Educational Technology Journal* and *Computers in the Schools*. His publications include *Interaction of Spatial Visualization with Computer-Enhanced and Traditional Presentations of Linear Absolute-Value Inequalities and Spatial-Visual Ability: Can Computer Visualization Facilitate Achievement?*

Kiser has been asked to write a book for Merrill Publishing Company on Computer Enhanced Instruction. He is considering the offer.

Kiser and his wife Marcia enjoy life in Daytona Beach and though they have no children, their six cats keep them company. "They each have their own personality, just like a child." Marcia is an Assistant Professor at Bethune-Cookman College, currently working on her doctorate in Medical Sociology Gerontology.

Dr. Kiser said that he relaxes by playing classical music on the piano. His favorite composers include Bach and Beethoven.

see KISER, page 12

Inside the Avion this week

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Trivia: One Space Shuttle Main Engine generates sufficient thrust to maintain the flight of two and one-half 747's.

Editorial

The ball's in your court

At this point in time it is obvious that this campus has been the victim of progress at the sacrifice of practically. This fact has been pointed out continuously by the students since the recent on-campus construction began. The administration has been justly accused of short-sightedness and the lack of solid long range plans with the students as a primary concern. So you ask where do we go from here?

Unlike school policy, concrete and asphalt cannot be eliminated or changed by voting for or against. The parking situation, it seems, is here to stay. Therefore, instead of changing the administration's way of doing things, why not change ours?

On a typical morning, you may arrive five minutes before your class starts. In an effort not to be late to class, you try to park as close to your classroom as possible. Unable to find a space, you take a few laps around the lot still without success. By this time you are late for class and decide to park in the grass or other illegal spot. When you return to your car after class, you find a ticket. Who do you blame ... yourself, security, the administration?

There are some ways to solve this problem without relying on the administration. One simple solution is to leave for class 15 minutes earlier and try to park in the lot near Catalina. Contrary to popular beliefs, there are spaces to be had in these lots at most times of the day.

From the far reaches of this parking lot, it only takes five minutes to walk to the library which is centrally located on campus. In addition, have patience with your fellow students. They are driving in the same parking lot as you. And unfortunately, they are probably upset about the parking situation as well. Courtesy can help ease the situation somewhat if everyone recognizes its necessity.

Receiving a parking ticket can be a trying experience in itself. But, arriving at your vehicle while ERAU security is making a citation can often prompt even the most reserved individual to act unwisely. Try to remember that this individual is only an employee who is following orders dictated by his job. No, pleasant conversation may not be in order, but at times silence is the wisest alternative.

The administration is making a gallant effort to improve the Embry-Riddle Daytona Beach Campus. At times, their methods seem to be questionable. But, overall, it seems they are striving to make ERAU an enjoyable and worthwhile place to spend four years of our lives. With a little discipline and ingenuity, we can help them make a master plan work for us all.



Letters to the Editor

Congressional Comment

To the Editor:

"Today, up here where the blue sky turns to black, we can say at long last... we have resumed the journey..."

The words of Discovery Commander Frederick Hauck, spoken Monday from the Space Shuttle 200 miles above the Earth, capture the significance of the Discovery mission for the U.S. space program. After the tragic loss of Challenger's seven astronauts in January of 1986, our space program was dormant for 32 months of redesign, testing and waiting. America's effort in space was on hold; but with Discovery's successful launch, four-day orbital mission and return to Earth, a new chapter has been opened for NASA and the space program.

Congress has renewed its commitment to space exploration by appropriating \$10.7 billion for NASA in Fiscal Year 1989,

including funding for a manned space station and the shuttle program. This represents an increase of 20% over the FY 1988 level. As Chairman of the Subcommittee on Defense Appropriations, I helped to secure an additional \$100 million for NASA's national security-related activities, as well as another \$95.6 million for development of a new rocket launch system, which is great news for Florida. Meanwhile, private enterprise is entering the space race with new launch technology and the manufacture of new drugs in space - among them exciting advances in surgical laser cancer treatment and, scientists believe, a possible breakthrough in the search for an AIDS vaccine.

The desire to explore the universe has fired the imagination of millions of American citizens, accelerated scientific advancements, and created new possibilities for our economy. The Discovery mission proves that our space program is more than worth the investment. Potential

projects on the drawing board include: the permanent human colonies on the moon and Mars; research in molecular structure made possible by weightless conditions in space; and medicines for diseases man has not yet conquered.

In looking to the future of the space program, we must remember the strong support given to this effort by Presidents Eisenhower, Kennedy and Johnson. We must also keep in mind the words of John Kennedy, who said, "Those who came before us made certain that this country rode the first waves of the industrial revolution, the first waves of modern invention and the first waves of nuclear power. And this generation does not intend to founder in the backwash of the coming age of space. We mean to be a part of it - we intend to lead it."

This generation, I am proud to say, is meeting that challenge. Congratulations to NASA and to all of those who helped America move,

in the words of Discovery Commander Hauck, "back to the future" - to America's future in space.

Signed,
Bill Chappell
U.S. Congress

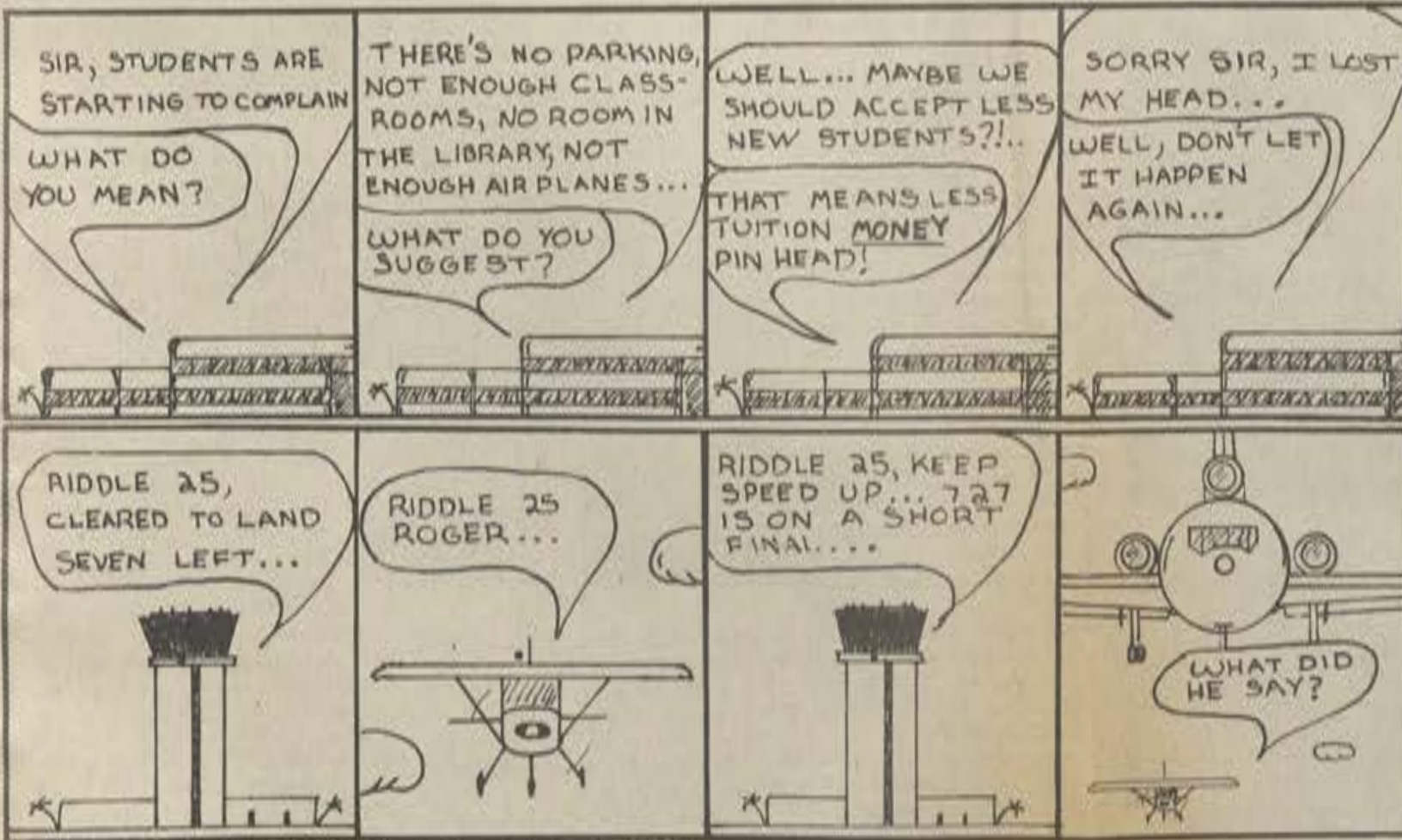
Security Blues

To the Editor,

At a recent meeting with our security department chairman, Mr. Tyson, one of the topics we discussed was the fact that I cannot at this time afford to purchase a parking sticker. I realize that parking stickers are only \$12.00, but regardless of the amount, I DO NOT HAVE THE MONEY!

Since this meeting, I have accumulated about 5 parking tickets, all for the same thing, an expired parking sticker which expired on Aug. 31, 1988. I've tried to get the parking fee applied to my account (which incidentally is \$3155, in the hole) but the cashier's office said, that is NOT POSSIBLE. So see LETTERS, page 13

Joe Pilot



Joe Szarmach



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This week's staff: Carol Dean, Carolyn Smith, Greg Mullin, Manny Fernandez-Longo, Doug Miller, Michael Hotaling

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Student Forum

The Avion asks: Are you satisfied with the efficiency of the Embry-Riddle mailroom?



Noel Davis

Yes, they do very well accommodating to 5000 plus students. I only wish they delivered mail on Saturday's.



John Lockwood

No, if I send a letter home one day from the mailroom and another letter the next day from the post office, the second letter arrives first.



Leslie Blahut

No, though I'm not certain I am taking all facets into account. I feel as though I do not receive my mail as quickly as it should come. If the U.S. postal service delivers on Saturday, why can't ERAU?



Dave Hacku

I like it better than last year. Then, it took three weeks to get in your box, but only three days to get home.



Nila Staggs

Yes, I believe that the mailroom is doing an excellent job considering the resources available to them. I do, however, wish that they would deliver mail on Saturday's.



Christine LoManto

No, when I was down in the mailroom helping out with the yearbook, I overheard some stories of letters and packages getting "lost" in mailbags and not being found for weeks after they were sent.

Avion photos by Manuel Fernandez-Longo

Greg's gibe

Wine: The nectar of the gods and other people

by P. Gregory Mullin
Avion satirist

A discussion completely lacking satirical content and one that probably has no place in the arena of interests of a university of this sort, but none-the-less one that may strike the fancy of a select few as informative. This was written with the select few in mind.

The discussion is wine; how to buy it, how to drink it, who to serve it to, and what to eat with it.

How many times have you found yourself in ABC Liquors or an outlet of the sort, looking for a bottle of wine? I realize college students generally seek beverages with greater "knock values" and correspondingly low price tags over a good bottle of wine. But if one is to invite a beautiful woman to his tent for a fish and crustacean dinner, (by the way, an event whose transpiration is unlikely in the university; see Avion 9-19-88), he may be responsible for involuntary manslaughter when he serves her Gallo Burgundy with the seafood delight. Yes, yes, there are

established conventions to be considered while selecting a bottle of wine, and for good reason.

A general consensus developed over centuries of experience and now accepted as etiquette suggests that deeply colored robust wines (Pinot Noir, Burgundy) go well with hearty red meats, game, and full flavored pastas. White wines (Chenin Blanc, Chablis) complement fish and poultry dishes. The reasons are both chemical and esthetic. Red wines, due to their heavy flavors and pronounced vapors, tend to support the flavors of meat. Whats more, in harmony with sight and smell, the color of red wine parallels that of heavy meat.

It's and appropriate and pleasing institution of taste and color. Still further, red wines are produced with tmin (a color producing agent) which when churned with fish oils and scattered about the mouth, leave a very bitter and lasting tasted. White wines cut fish oils and sharp

garlic flavors due to their acidic nature. They leave the palate fresh and prepared for another round of taste trivia. Most of us know how unpleasant the ever present taste and smell of fish can be. This reality alone should provide merit to the aforementioned host of rules.

Parting from the wine/food analysis, some insight into the wine/dollar discussion is in order. A very general rule of thumb yields that a good wine contains at least 12.5% alcohol by volume. Normally, this percentage figure corresponds to a minimum age of 4 years. If you encounter a bottle of wine that claims to be 12 years old, costs \$40.00 and boasts only 8% alcohol by volume, unless you enjoy insipid Kool-Aid, it should be earnestly avoided. I have found that a good bottle of wine can be had in Daytona for as little as \$14.00. It strikes me foolish to witness one spending \$75.00 on a wine that, in his judgment, could have very easily passed as a can of

Open Forum

FAA vows to clean up medical records

By Jack Anderson
and Joseph Spear

WASHINGTON--The truth is catching up with pilots who have lied about drug and alcohol-related offenses. Twenty-seven pilots were indicted last month in Florida on grounds that they failed to report that they had

been arrested on drunk-driving charges when they applied for medical certification saying that they were fit to fly.

The Federal Aviation Administration has no formal policy for punishing pilots who have drunk-driving convictions. The strongest action the agency can take is to charge the transgressors with lying on federal medical forms.

Transportation Secretary James H. Burnley has promised to demonstrate that his department will not tolerate pilots with drug and alcohol problems...

We reported last year that the Inspector General's office of the Transportation Department had reviewed the police records of the more

than 711,000 licensed pilots in the country and found that 10,300 had lost their driving privileges in the past seven years for driving while intoxicated. Even worse, 7,850 of the pilots with drunk driving records failed to mention it when they were given periodic medical exams as part of the licensing process.

The inspector general is pushing ahead with plans to search the records for drug convictions.

Our stories earned us the wrath of thousands of pilots across the country, and the Air Line Pilots Association ac-

cused us of unfairly singling out their members for criticism. Thirty of the 7,850 pilots who allegedly lied were employed by major airlines.

This is what the FAA did with the 27 pilots charged last month, and Transportation Secretary James H. Burnley IV has promised that more indictments are in the offing. He is determined, he says, to demonstrate that his department will not tolerate pilots with drug and alcohol problems.

Career Navigator

Where to work: more than just location

by Career Center

Our last article talked about how to start your job search. You do so by getting to know the product -- you -- before you go out to call on your customers -- the employers. Your next step is to determine where you want to work. You will be asked this by employers and it can have meanings other than simply geographical preference.

To generalize somewhat, working in a large firm usually means that you're responsible for a small, specific slice of the pie. There are many others doing the same type of work as you and upon whom you can rely. Smaller companies don't usually have the luxury of several layers of backup expertise; you'll have broader responsibilities and you'll probably work on a variety of projects without a great amount of help. Which environment sounds more comfortable to you? Choosing where you want to market your product will help you to further define the "targets of opportunity" at which you want to shoot.

Your next step is to explore the job market and determine who out there in your targeted area needs someone with your background and qualifications. This

is job market research and is the process of uncovering the name of employers who, in the normal course of their business, hire people with your qualifications and who meet your personal criteria of what you want to do and where you want to do it.

This "hidden job market" exists because most jobs are not advertised. If you have communicated with the employer during this process -- and before the job is advertised -- you have minimized the competition. That's one of the secrets of finding a good job.

Job market research requires that you take the initiative to explore the world of work by researching printed material and by talking to people. We all know the big names in aviation -- Delta Air Lines, McDonnell Douglas, Textron-Lycoming, General Electric, Pratt & Whitney, etc. -- but there are literally hundreds of other employers out there who hire people with your qualifications. It's up to you to do some research and use your detective skills to expand your arena of opportunities. While you are reading and talking to people, jot down the names of companies that interest you. Check into them a little further to see if they might be good targets for your marketing campaign.



Avion photo by Ken Starbuck

Gooo Navy...

A Navy S-3 Viking was put on static display on the maintenance flight line for ERAU students. The S-3's visit was sponsored by the Naval Aviation Club.

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PLEASE DON'T DRINK AND DRIVE

Aviation traditions live on

by Ken Steinhart

Nobody said anything about getting my clothes cut off or being thrown into a pool! Are you sure this is a tradition? That's the usual response I get when I tell a friend who is going to complete their primary solo about the events that would follow.

For a devoted pilot the primary solo is probably one of the most important days in their life. I can remember my flight instructor, back in Ohio, telling me that "you only have one chance, so you'd better get it right!" To a pilot, that first solo flight is their one chance to prove they can really do it, defy the bonds of gravity and return safely, alone.

Traditions to commemorate or remember special events come in many forms. A college graduate moves the tassel on his graduation cap from left to right and then throws it in the air after commencements, a man gives the woman he loves a diamond ring as a promise they will marry and students sign each others yearbooks just to remember. All these traditions are reminders of the special occasions and achievements we make in our lives.

In aviation we have traditions to help us remember and

celebrate special events. The oldest of these traditions is the clipping of a newly soloed pilot's shirt tails. This was done to signify the clipping of a bird's tail feathers so that it wouldn't fly away. Another started during World War II. Most aviation training bases were either in Florida or the desert south-west, both were very hot. As a form of relief from the heat, pilots would occasionally hose each other down with fire fighting equipment. After a while, because of water shortages in the desert, one base commander ordered that only newly soloed pilots could be soaked, so the story goes. This began the tradition of dunking new pilots.

Both of these traditions are still practiced today, here at Embry-Riddle. Shirt tails have grown to include colorful art work and the flight instructors signature. Now the new pilot is thrown in a swimming pool instead of being hosed down. This makes things a lot easier on the Airport Fire Department.

These traditions have become an important part of an Embry-Riddle student pilot's solo. The framed shirttails hanging on a wall are a constant reminder of good friends and goals we all shared.

'Are you sure this is a tradition?' That's the usual response I get when I tell a friend who is going to complete their primary solo, about the events that would follow.



Avion photo by Ken Steinhart

She's safe...

Cadets from Air Force Reserve Officers Training Corps Det. 157 enjoy a friendly game of softball during last Friday's commander's call.

ERAU hosts Sun Seminar '88

by Ken Steinhart

"I came here to find out if I would like flying and I found out that I love flying." That's what a student said when he was asked to sum up this summer's Sun Seminar program.

Each year Embry-Riddle hosts a 16 day program designed to help young men and women, between the ages of 16 and 21, decide if an aviation career might be in their future. Most of the 33 young men and women students who enrolled in the program said they had never flown before and were eager to try their hand at aviation.

Sun Seminar '88
AN INVITATION TO FLY!



Local youths take part in ASSL instruction

by Carolyn Smith

The Instructional Media Center, located in the Airway Science Simulation Laboratory (ASSL) Building, conducted a tour of the meteorology, air traffic control (ATC) and flight simulation stations on October 7, to local elementary students.

Host Carolyn Smith, Cris Nicholson and Gerry Kowalski guided groups of fourth and fifth grade students from Deltona Lakes Elementary School through the tour.

Under the guidance of ERAU student Alan Baxter, the students were shown the radar and satellite methods of weather monitoring. He also reviewed a video tape of the satellite images of Hurricane Gilbert, which the students had tracked in school.

The students were also given the opportunity to individually operate the flight simulator under the in-

structional eye of Derrick Lahaye, an aeronautical studies major.

At the ATC simulator, computer science major Jim Cieplak gave the students insights and hands-on experience into the methods of air traffic control.

The tour concluded with a visit by Dr. Gerald Gibb, director of the ASSL, who surprised the students by entering the room dressed in a Nomex flame-retardant flight suit. He demonstrated the usefulness of the suit by holding a lit match up to his sleeve warning, "Don't try this at home!"

Daytona Lakes Elementary School teacher Jeanette Deen exclaimed, "He was a great finish to an excellent tour!"

The Instructional Media Center, an educational resource for Embry-Riddle and local instructional purposes, is funded by the Federal Aviation Administration.

While here, the students were kept on a rigorous schedule. Each day's schedule consisted of simulator training, three hours of flight, at least two hours of classroom instruction, two hours of careers introduction and several hours of study time. When asked, how they liked the routine, one young lady remarked, "They keep you busy once you get here, but it's a lot of fun."

During the weekend students had a chance to go to Kennedy Space Center, and to a picnic at Ponce Inlet. The weekend's activities proved to be a fun diversion from the young aviators' hard studies.

As the program came to a close, the students received their student pilot certificates upon completion of their primary solo.

During the seminar students stayed in the dorms, each sharing a room with another seminar student. Many friendships were made between people from as far away as California and New York. One group of eight students decided to all return to Embry-Riddle so they could all stay together through college.



Photo by Stephen Duff



Archives photo

Tradition calls...

Krista Parker, an Embry-Riddle FA-104 student, gets her shirt tails drawn and clipped shortly after her first solo (left). At Carlstrom Field, an Army Air Corp training base, it had become customary for a cadet's buddies to toss him, fully clothed, into the swimming pool. Cadet Jack Williamson was the first cadet to be dunked on April 4, 1941 (right). Although 47 years apart, these traditions still hold as much meaning for Parker as they did for Williamson.

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Notices

International Day

International Day will be held on Saturday, October 22 from 1:00pm to 5:00pm in the University Center. Students from 17 countries will provide booths, food and entertainment.

National Alcohol Awareness Week

This week is National Alcohol Awareness Week. In order to provide the students, faculty and staff of the University more information about alcohol abuse, the ERAU Substance Awareness Committee will sponsor the following events:

Wednesday, October 19: Material on substance awareness will be available for students (pamphlets, posters, etc.) in the north hallway of the U.C., from 10:00am to 2:00pm.

Thursday, October 20: Sgt. Larry Hankin and his drug sniffing dog "BEAR" will sponsor a program for one hour in the Common Purpose Room of the U.C. at 1:30pm.

Friday, October 21: The B.A.T. (Breath Analysis Testing) Mobile will be on display in front of the library during the day.

For more information concerning Substance Awareness, please contact the Student Activities Office.

Air Traffic Control Test Guide

Students who contacted Mike Welch of FAA in Atlanta for free copy of ATC test guide, response was too great to send out individually. Copies are on reserve at the ERAU Library.

Answers to the test guide can be obtained at the Career Center (second floor of the University Center).

On campus test will be held on November 12, 9 a.m. to 1 p.m. in A109. Results can be obtained that afternoon.

Off Campus Housing Office Services

The Off Campus Housing Office is located in Dorm II, Room 274. Through this office students may obtain:

- "The Guide to Off Campus Living", a pamphlet helpful when making the decision to move off campus.

- Discount motel program-economical alternative while re-locating.

- Rental listing of properties in the local area.

- Realtors guide - a compiling of those realtors who handle rental properties.

- Tenant/landlord advisement - look over legal implications of leases before you sign, mediate disputes, and coordinate housing problems.

These services are available year-round. The office is open 8:00am to 5:00pm, Mon. to Fri.

Math and Physical Science Seminars

- Oct. 20 Dr. John Pope *Role Conflict*
- Nov. 8 Dr. Iraj Hirmanpour *Computer Aided Software Engineering*
- Nov. 22 Dr. Ala Al-Humadi *Generalized inverses and their applications to control theory*
- Dec. 6 Dr. Herbert Neunteufel *The Co-orbital satellites of Saturn*

All seminars will be held at 1330 in Riddle Theater. Students are welcome. For more information, contact Dr. Shiv Aggarwal, Chairman of the Mathematics and Physical Science Department (extension 6709).

Orthokeratology Lecture

On Wednesday, October 19, Dr. Leonard E. Indianer, a Daytona Beach optometrist and orthokeratist, will present a program entitled "The Control, Reduction and Elimination of near-sightedness," in the UC.

Creations Deadline

Entry deadline for CREATIONS, a collection of poetry, photos, short stories and artwork, is November 10. Faculty, students and staff are welcome to submit their creative works to J. Berg (Humanities Dept.) or G. Gougler (ERAU Box 5465).

Intercollegiate Athletic Booster Club

Basketball Coach, Ron Caylor, is looking for persons who would be interested in helping form and develop an athletic booster club. Of particular interest, at this point in time, are persons interested in helping promote and support the basketball program. A 21-game intercollegiate basketball schedule has been developed with the first game being played at HOME (DBCC Gym) on November 4.

The initial major objective of the proposed booster club is to obtain spectator support, to get the faculty, staff and students to attend the games. Secondly, some HOME game personnel support will be needed for such tasks as scorekeeper, clock operator, shot clock operator, ticket taker, etc. The development of an effective booster club can have a tremendous effect on the success of an intercollegiate 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, extension 6553 and leave your name and telephone number, or contact Ron Caylor at extension 6844.

An organizational meeting will be scheduled in the near future.

Homecoming Airshow a success

by Public Relations

About 25,000 spectators gazed into clear blue skies to watch the recent Airfest Arizona '88 at Prescott's Love Field. The airshow was planned to coincide with Embry-Riddle's Homecoming week festivities.

Sponsored by Embry-Riddle and hosted by the City of Prescott, the exciting four-hour airshow featured the Coors Silver Bullet, the world's smallest man-carrying jet aircraft. Piloted by Tom Jones, who recently won the national aerobatic competition, the aircraft swooped through the sky at 300 mph as the pilot guided it through a series of maneuvers.

Top U.S. female aerobatic pilot Patty Wagstaff, who placed third in national competition, thrilled the crowds

with her aerobatic performance in her "Extra 230". Flying bright red Pitts S2Bs, lead pilot Don Madonna and wingman Steve Brower executed routines at speeds ranging up to 200 mph.

Comedy relief was provided by the Acme Duck and Airshow Company featuring Ace the Wonder Dog.

The majesty of the F-16 Fighting Falcon, the Harrier, the T-33 and the C-130 left the crowd breathless as they went through their tactical demonstrations.

The four-hour show also included a war bird fly-by, demonstrations by Army helicopters, and acres of static displays.

Prescott officials said Airfest Arizona will be an annual event the second weekend of each October as Embry-Riddle celebrates its Homecoming Weekend activities.



Boss of the skies...
Spectators at Airfest Arizona '88 stand and admire the newly restored F4U-1 Corsair 'Skyboss.' Many other aircraft old and new were available for view.

'One night stand'

The male-to-female ratio at Embry-Riddle Aeronautical University is about nine to one. Being one of the unfortunate majority, I keep my eyes open for any opportunity to meet young woman.

One afternoon, I glanced at the bulletin board announcements and did a double take. A sign read: "One night stand, \$20." Then I noticed, to my disappointment, what was written below in smaller print: "sorry, guys, I'm only selling furniture!"

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Christian Fellowship shares love with new members

by Bernie Wiebe
Club Writer

Hello everyone! We've had a good beginning at C.F.C. with some special events at our weekly meetings. Our first meeting was held on September 11; it was good to have several new people in attendance. We are looking forward to an exciting year and I know that those people who are just joining us will bring with them new excitement and vitality.

On September 17 we didn't hold our regular meeting as several of our members went to Walt Disneyworld's Night of Joy. This is an annual event where Disney presents several Christian bands in concerts on various stages. This Disney years center stage was occupied by Stryper.

September 24 we again held our regular meeting in the C.P.R.

where our club president, Murphy Hyde, talked about how to maximize our potential as college students here at ERAU.

The key, as he put it, is to keep our lives in focus. The

scripture that Murphy referred to is found in 1 John 2:7 "The world and its desires pass away, but the man who does the will of God lives forever."

At last week's meeting our vice-president, Darrel Hawkes, continued to emphasize the importance of knowing about our eternal destiny. This life is short, and we will all need to give account of our actions someday. Jesus said, "For God so loved the world that he gave his one and only Son that whoever believes in him shall not perish but have eternal life." To have this eternal life we all need to believe the words of Jesus. To find what these words are we need to look at the Bible.

October 8, Darrell again encouraged us to keep our lives in focus; he remained us of the story of David. When David, a young shepherd, killed Goliath, a 9'9" giant, he was not intimidated because his eyes were focused on God, who David knew would give him the victory. David found security in God's hand, and God is willing to give that security to everyone who truly desires it.

Aerospace Society working hard

by Jose Vazquez

Well it has been a great semester so far for all of us at the Aerospace Society. Starting with the shuttle's launch, space week, the laser prints sale, and finally with the Riddle-Regatta. But there is more than that still. One of our upcoming activities is the presentation of astronaut Millie-Hughes Fulford who will be part of the future space lab. She will be coming to school on October 27, so be alert for more information about where and what time she will be at school. Also our traditional mid-semester Gattis Night will be on October 20, don't miss out on all that pizza, pasta, and movie. The KSC trip will be on November 19 and as always we will provide transportation.

Now for what every one has been waiting for, the Space Max computer software for the contest will be distributed at tonight's meeting to all paid members, so if you are not a paid member yet this is your opportunity to join the fun. Don't forget there will be a meeting tonight in the CPR at 7:00 pm.

Archery Team performs Oct. 15

by David Harman
Team Treasurer

As of this writing, the ERAU Archery team is planning to hold its second competition at Bethune point archery range on Saturday the 15th. The shoot will be a 600 round, 40-50-60- yard format, and should be great fun for all involved.

The team has recently purchased two 80 inch target mats which will prove invaluable when hosting contests. Once again, we would like to invite anyone to join our team, no experience of equipment is necessary.

Alpha Eta Rho bowls tough

by David Anderson
Club Writer

This week AHP was very busy and involved with different events. First, I would like to congratulate AHP's rowing team for their 3rd place finish in the Riddle Regatta. Also the bowling and football teams are still proving and demonstrating their dominance. The bowling team took 5 of 7 and the football team shut out the Force 7-0. Outstanding bowling performances were contributed by Ray Audet, Darrin White, and Henry! Excellent play in football is given to John Laney, D. White, Henry S. Riley, Jim Howe, and to the entire offense and defensive teams. However, if AHP were to name the superior athletes of the game, they would clearly be Paul Hromanik and his cheering section comprised of fraternity members and pledges. Thanks for your support folks! On the darker side, AHP is still hanging tough through Greek Week. We wish Delta Chi the worst of luck!

Precision Flight Team sponsors safety presentation

by Sherry Miller
Flight Team Writer

As another week passes, the Embry-Riddle Precision Flight Team moves ever close to the 1989 Region IX Safe-Con, and this week has been quite busy. The new team test file is established in Mr. Mason's office and is available during his office hours. Please submit all tests as quickly as possible.

The team has also been preparing for several upcoming events such as: the continuation of donut sales, a Halloween visit in costume to local hospitals, a costume/pumpkin carving contest for elementary school children, and a mass food drive for Thanksgiving. Everyone's participation is necessary to make the above events successful. Please stay posted for further information.

This week's meeting was highlighted by special guest Mr. A.C. Tacker. Mr. Tacker spoke to team members on crash safety and survival. The team would like to thank Mr. Tacker for helping us advance safety awareness at Embry-Riddle.

As competition draws near the coaches are faced with some important decisions. Practices are going very well, and all should be finalized by the beginning of November. So, keep up the good work everyone, and make the coaches' decisions as TOUGH AS POSSIBLE!

The Embry-Riddle Flight Team would like to take a moment and say farewell to former President J.P. Walsh who will be returning to Pennsylvania to work as a flight instructor. J.P. was not only the 1988 Region IX top pilot and a valuable asset to the flight team, but a very dear friend to all. So long Japes and GOOD LUCK!

CLUBS POLICY

- All articles must either be type-written, double-spaced or on disk (unformatted in Word Star 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.
- For more information, stop by or call the Avion office at (904) 239-6049.

Lambda Chi Alpha rolls in fun

By Steve Paik
Public Relations

Congratulations to the finalized AM class and Big Brother of 1988. To the Associate Members: In the next several weeks you will learn about the history of Lambda Chi Alpha and the Greek system.

Keep an open mind and a sharp eye to everything you are taught, because all this is in preparation for you to become future brothers. No one can stress enough how the important it is to be responsible for yourself at these trying times, but if you are Lambda Chi material, you'll make it through with flying colors.

Consider it an honor to be an Associate Member, but keep in mind your status as a beginner. At times it can get easy to think of yourself as a "shoe in" but always remember that everything has a price and everything demands labor. You must prove yourself to be knowledgeable and worthy of initiation before the brothers vote.

In times of need and frustration or in times of hectic confusion, turn to your Big Brother for help and guidance. He has been selected for you, to assist you, and to teach you. Use your brothers well and develop a deeper bond.

Now for the fun stuff. Wet and Wild is coming and only 18 days to go. So get those insulated swim suits for the cold water.

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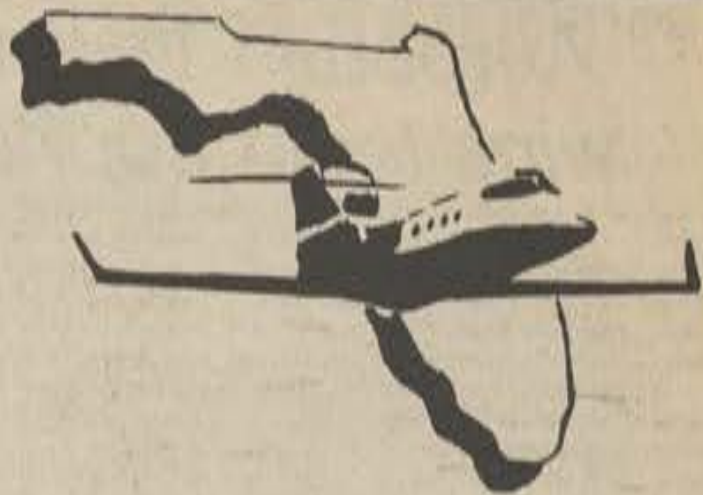
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Gulfstream prepares supersonic launch into the twenty-first century

took place in 1987. The basis of the research was to discover what this broad range of business aircraft owners thought Gulfstream Aerospace should be working on for the next generation of business jets.

Gulfstream Aerospace has the in-house talent to build a Gulfstream-SST business jet. Experienced Gulfstream design engineers and technology managers have a broad range of supersonic aircraft experience.

Project development estimates for the 21st Century Gulfstream-SST business jet are three years of preliminary design, development, testing, certification and product launch are projected at an additional seven to eight years.

Gulfstream Aerospace manufacturing would require additional high tech (state of the art) automated equipment. An increase in computerized machine tools will be needed to assure quality control of high tech materials. High tech materials research is not to the point necessary for full scale

production. Revolutionary advances in composite technology in other recent designs, like the Beechcraft Starship, are very promising in the area of composites. Along with technological leaps in Avionics have also proven very promising.

At the present time, funding of the Gulfstream-SST is as a committed engineering study project. This means that production funding has not been allocated as of yet, but is currently being sought. The initial research indicates a market for an SST in the price range of \$30- to \$50-million range. The business launch and development of our 21st Century Gulfstream-SST is projected to be a billion dollar program. Risk sharing partners will be sought in the aerospace industry (airframe, powerplants and electronics).

Gulfstream has been approached by potential partners. However, no meetings dealing with partnerships have been held with any other firms to date. Risk sharing customers will also be sought through the first 35 airplanes,

Aerobatic Team wins team trophies

U.S. Aerobatic Team Press Release

One of the main objectives held by members of the 1988 U.S. Aerobatic Team was to retake the Men's Aerobatic Team trophy and win the Women's team trophy at the recently concluded World Aerobatic Championships in Canada. After three difficult flying events, the Men's Team won top honors and the prestigious Nesterov trophy back from the Soviet

man/Denison, Texas. Flying an assortment of modified Pitts Specials, and original design biplanes and monoplanes this year's team was particularly intent on capturing both the men's and women's team trophies. For the first time in international competition the U.S. has won both simultaneously.

US Aerobatic Foundation President, Bob Wagstaff, reports that "all our

"This was one of the best teams we've ever fielded -- both in terms of ability as well as spirit...this team was dedicated to making a positive showing at the WAC."

- Bob Wagstaff

Supersonic look...

This is the proposed look at the latest in aviation technology. Its design features will allow the plane to operate within the limits of current airports.

by David A. O'Donnell
Aeronautica Editor

The 21st Century Gulfstream-SST business jet concept development program is in its sixth month at Gulfstream Aerospace. The Gulfstream-SST project is designed to study several future concerns. First, Gulfstream is assessing the needs of business in the year 2000 and beyond. They are attempting to come up with an aircraft built with trusted materials and appropriate advance technology which will operate within the General Aviation airport network. The initial design will include an aircraft with a speed of 1.5/2.0 Mach, 3,500 NM (4,000 SM) range, with reserves, and designed for 10-12 passengers plus crew of two.

In order to meet the needs to the current airport facilities the aircraft must incorporate a span of about 60 ft, a length of 100 ft, a gross weight of 80,000 lbs and a cruise altitude of 50/60,000 ft. If the designs incorporate these design features the jets should be able to operate in most of the existing airport facilities in the country with ease.

With all of these design parameters in mind Gulfstream has set out to

design two aircraft. The early estimates indicate that a Gulfstream with a speed of .95 Mach might not offer enough additional performance and value. With designs concentrating on supersonic design Gulfstream is concerned that they will not be able to compete with existing business designs. However, the near supersonic aircraft has not been completely eliminated.

Consideration of a 21st Century Gulfstream-SST business jet operating at 2.5 Mach or above indicates penalties in manufacturing, operating costs and operating versatility that would make the aircraft less marketable to businesses.

Studies are now focused on an all-new aircraft consistent with established Gulfstream philosophy of building with trusted technologies and materials to the specific needs of the business market. As with its predecessors the G-4 and G-2 Gulfstream has demonstrated that it can service the business community. Gulfstream is attempting to appeal to their current market while not straying from their current design philosophy. A research study with a cross section of Gulfstream operators



Near supersonic look...

This new design is also being considered for Gulfstreams leap into the 21st century. The design is to travel at just under the speed of sound

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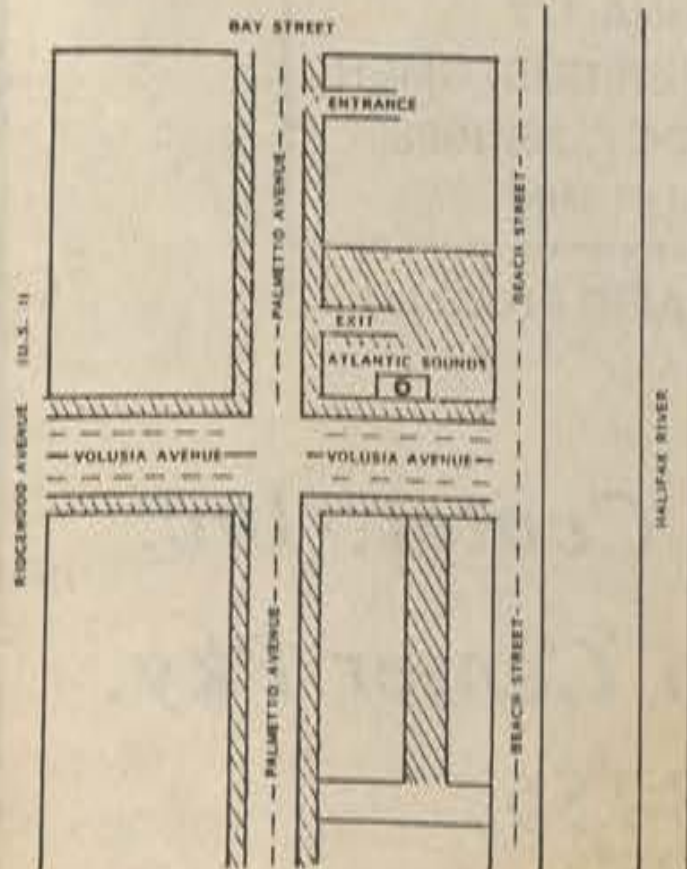
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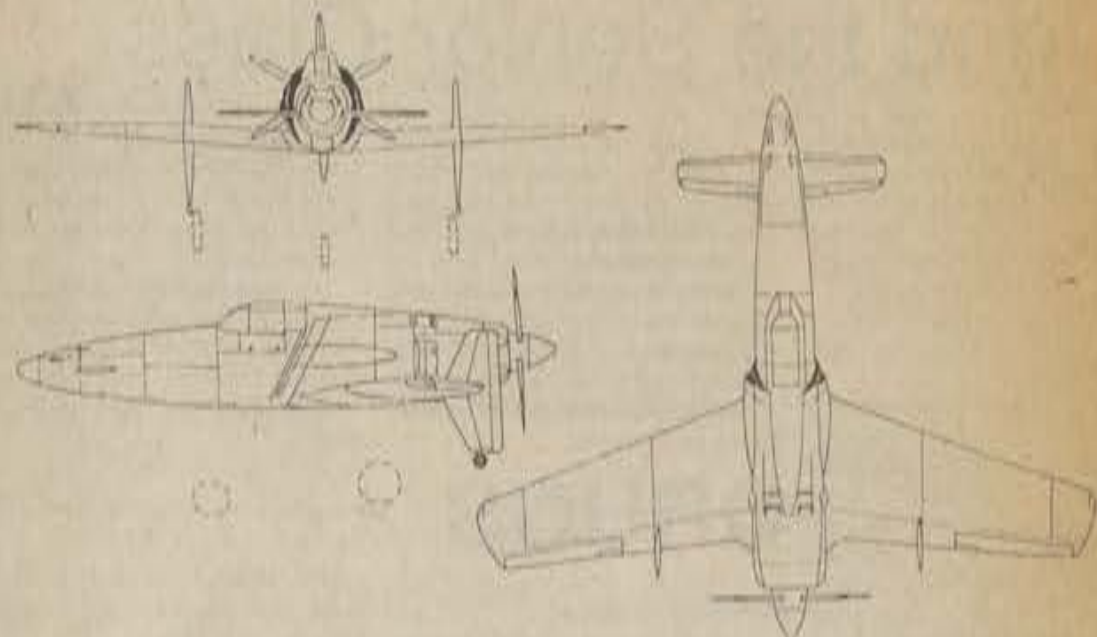
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The winner of Last weeks Aero Identification Contest was Brett Canter. Last Weeks Aircraft was correctly identified as: *Platus Britten-Norman AEW Defender with Nose mounted Skymaster Radar.* Thanks to everyone who participated and good luck this week!

Embry-Riddle to change fleet to Piper Cadets



Avion photo by Doug Miller

Saying goodbye...

June 1989 will see the end of the C-172 fleet at ERAU. A finalized deal with Piper is in the works to replace the aging C-172 fleet with Piper's brand new training aircraft, the Cadet. The final fleet will include fifty aircraft.

by Carol Dean
 Avion Staff Reporter

The rumor that has been going around campus regarding the change from C-172 to a new training aircraft apparently is true.

The Embry Riddle Flight department has decided to change from the Cessna 172's in its current fleet with a brand new fleet of Piper's newest training aircraft the Piper Cadet. According to Paul McDuffee, chairman of Flight Technology, the first shipment is expected in June of 1989.

The delivery schedule will consist of twenty planes over a three month period; eight in June, six in July and six in August. Thirty more Piper Cadets will eventually be added to the fleet. These shipments should take place in the fall

of 1990, 1991 and 1992.

Embry Riddle has decided to change from its current fleet since Cessna is no longer producing the C-172. Embry Riddle is striving to provide new aircraft with state of the art equipment for the students, and Cessna no longer has that to offer.

In addition, the Piper Cadet is attractively priced and Piper will be able to meet the delivery schedule. Because of the modest price, there will be no increase in student flight fees.

The deal is not yet final, but McDuffee feels confident that the deal should be signed at any time. Piper Aircraft Corporation is located in near by Vero Beach, FL.

Integration for rocket payload hoped

HUNTSVILLE, Ala., McDonnell Douglas engineers are working with scientists from the University of Alabama here to integrate the rocket payload for a space mission that will explore materials processing. Scheduled for launch in March 1989, the sounding rocket will carry 600 pounds of experiments 200 miles above earth for six minutes of low-gravity conditions. The mission is part of a long-range program of the Consortium for Materials Development in Space at the university and is supported by the NASA Office of Commercial Programs. The primary task of the Huntsville division of McDonnell Douglas Astronau-

tics Co. is packaging the six experiments aboard the rocket so that they function properly during flight. McDonnell Douglas has been working with the university on this project since March.

The researchers are looking for new materials and processes that have future commercial space applications. Some of these experiments could lead to further testing aboard the space shuttle. The experiments include the fusing of metals that could result in stronger alloys, the study of polyurethane foam formation and research on electroplating processes. This mission marks the first U.S. sounding rocket dedicated to low-gravity

materials processing in almost six years. "The task is a welcome opportunity for our payload integration team," said George Maybee, flight project manager for McDonnell Douglas. "We enjoy working with the researchers to help turn their ideas into hardware that will function effectively in space."

McDonnell Douglas provides integration and technical services to NASA, the Department of Defense and other customers. One of the Huntsville division's responsibilities is the integration of experiments and payloads within Space-lab, the orbiting research laboratory that is carried to orbit from space by the payload bay of the space shut-

First reintroduced Cub is personally delivered by Millar

Piper Press Release

The legendary Piper Super Cub is flying high again. Piper Aircraft Corp. recently delivered the first reintroduced Super Cub to Robert Jones of Jacksonville, Fla. Piper owner M. Stuart Millar was on hand to personally present Jones with his new airplane. "It gives me great satisfaction to see the return of the Super Cub to the skies," said Millar, a former WWII fighter pilot. "By

reintroducing the Super Cub, Piper is bringing affordable airplanes to the personal aviator."

The aircraft that "taught the world to fly" was last produced in Lock Haven, Pa. in 1982. The decision to bring the airplane back was based on a strong response from the general aviation market. Cub sales are strong, with more than 50 orders placed in its first five months.

The versatile Cub is powered by a

150-hp O-320 Lycoming engine and is offered as a factory ready airplane or as home assembly package that when completed will be certified in the normal and utility categories which makes the new Cub unique.

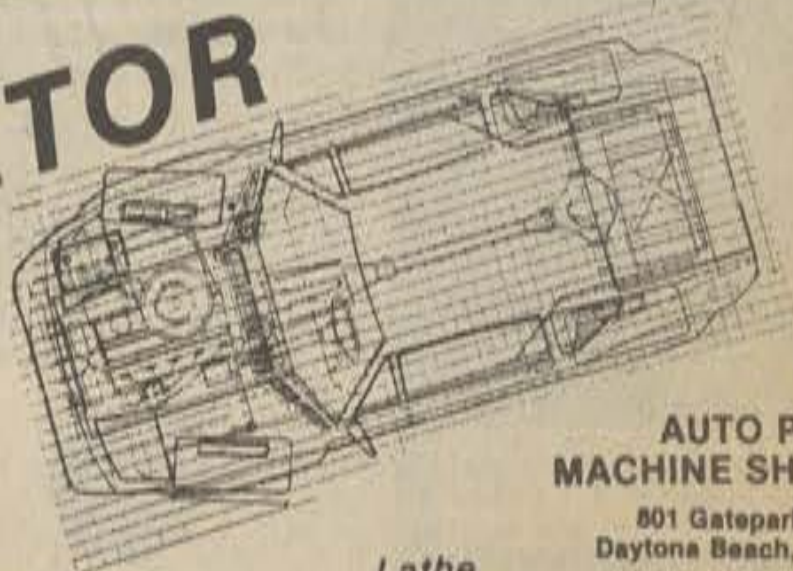
Standard features on the Cub include an electrical system, electric fuel gauges, stainless steel control cables, one-piece stamped wing ribs and fabric covering that is pop riveted to the wings.

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Alcohol Awareness Test

(Editor's Note: In conjunction with National Alcohol Awareness Week, the Avion presents a test concerning myths and misconceptions about alcohol.)

Many Americans lack information that can make the consumption of alcohol a more responsible act. In fact, scientific research into American drinking habits leads to one conclusion: most Americans - both those of drinking age and those who will become drinking age in a few years - need more information about alcohol.

Can you separate myths and misinformation about drinking from the facts? Choose the answer you think most accurately completes each statement. Answers may be found on page 12.

1. Typical servings of beer, wine and liquor:
a) contain the same volume of liquid;
b) vary in alcohol content;
c) are equal in alcohol content.

2. Switching drinks during the evening will:
a) affect you more strongly than staying with one type of drink;
b) have no effect on you Blood Alcohol Content;
c) guarantee you'll feel awful the next morning.

3. To slow down the effects of alcohol:
a) drink more slowly;
b) eat something substantial beforehand;
c) snack while you drink;
d) all of these.

4. If you're going to a party and want to pace yourself:
a) drink only liquor;
b) moderate the amount you drink;
c) drink only beer or wine.

5. If you think you've had too much to drink, the best solution is to:
a) stop drinking and eat something;
b) wait 30 minutes before your next one;
c) drink black coffee and go out for some fresh air.

6. If you're trying to lose a few pounds, or like to watch your weight generally, the best approach to drinking is:
a) switch from beer to wine;
b) switch from liquor to wine;
c) count your calories.

7. Labels on beer, wine and liquor:
a) describe the alcohol "proof" of the beverage;
b) list the alcohol content as a percentage of total volume;
c) vary in the kind of information they give you.

8. When you want to drink "lightly":
a) have a white wine;
b) have either beer or a mixed drink;
c) be moderate in whatever you choose to drink.

Rose and Gordon elected to lead the Senior Class

by Ray Natac

Adam Rose and James Gordon recently won the positions of President and Vice President of the Senior Class, respectively. Elections were held at the first meeting of the December 1988 graduating class.

There were three other candidates running for each position with over 110 ballots cast.

Jo Beth Davidson was appointed secretary and Margaret Wiggers, treasurer, immediately following the announcement of the results.

The meeting was held on Wednesday, October 12, and attended by over one hundred seniors anticipating graduation in a little over sixty days, according to Laurie Ranfos, Student Activities Coordinator and Advisor to the Senior Class.

Preliminary graduation information was presented to the graduates, including a brief rundown on activities immediately prior to the actual ceremony scheduled for December 17.

Ranfos assured graduates that information relayed during the meeting would be written down and sent to each senior who applied for grad-

uation.

The main objective of the gathering, however, was the presentation of speeches from each candidate vying for the president and vice president positions.

"It was a joyous occasion," said Rose on learning of his victory. "It was something that James and I put a lot of thought into," he continued.

Rose and Gordon ran as a team during the elections.

Rose says that their immediate goals are to establish a strong Senior Class Council, to raise significant funds for the class social, party, and project and to represent the seniors as best they can.

The next meeting of the Senior Class Council will take place on Thursday, October 17, at 6 p.m. Council members may check with Student Activities (ext. 6039) for details.

DRUGS

(continued from page 1)

Cyrocki stressed a positive lifestyle leads to a long and successful career in the aviation field. He stressed that he was not preaching, but said that "Every person I know that has used controlled substances has ended up leading a less than satisfactory life."

Cyrocki also said "I wish I were where you young people are today, with the rate of advancements in aviation today being far greater than when I was your age."

The panel discussion, part of ERAU Substance Awareness Committee's

annual National Alcohol Awareness Week's calendar of events, was a most informative evening.

The credentials of the panel members were quite impressive, and wealth of facts and tips could have been shared with all students.

National Alcohol Awareness Week continues on campus with materials on substance awareness available in the north U.C. hallway today from 10 a.m. until 2 p.m.

On Thursday, October 20, Sgt. Larry Hankin will sponsor a one hour program in the CPR complete with his drug sniffing dog, "BEAR".

"I wasn't rubbing it in—I just wanted Eddie to know the score of last night's game."



Alex Sum · University of Washington · Class of 1990

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Avion has launch priority Delta

Orbital debris poses serious threat

by Michael Fried
Space Technology Editor

While mankind has been able to launch humans into space, we've also been able to launch plenty of junk to follow. Orbital debris has become an increasingly big concern for fear of it impacting with satellites or space vehicles.

The North American Aerospace Defense Command (NORAD), which is responsible for tracking the debris, must make a distinction between debris burning up in the atmosphere or an incoming missile, and must also warn of a potential collision with other spacecraft. With the constant addition of debris, used rockets or unexpected explosions, NORAD's job has been made more difficult. About four

million pounds of debris orbits the earth everyday.

Ironically, the tiny debris poses a larger threat than the larger chunks. Tiny debris, consisting of paint

"1.8 million pounds of... debris is put into orbit each year"

chips to dust-sized particles, far out-numbers the larger debris. Al-

though the concern may not be big news, the space shuttle *Challenger* was hit during STS-7 by a paint chip which resulted in replacing a window prior to its next flight.

For the future, scientists are finding ways to protect the satellites by adding protective shields; however, the solution must start at the source. Nations with launch capabilities, such as the U.S., U.S.S.R., China, Japan, Europe, India and now Israel, must work together to control the problem. Current estimates show that 1.8 million pounds of additional debris is put into orbit each year.

Alternate landing sites located for shuttle

by Michael Fried
Space Technology Editor

During a space shuttle launch, there is always the possibility for an unscheduled landing; therefore, NASA has located alternate landing sites outside the United States.

A Transatlantic Abort Landing (TAL) would occur if the shuttle encountered a problem during launch or in orbit, and at the same time being impossible to land inside the U.S. For example, a shuttle engine may fail during launch forcing the shuttle to land on the nearest land mass. Similarly, a problem may occur in orbit requiring a return to earth as soon as possible, while at the same time the shuttle may be on a certain groundtrack making it impossible to land in the U.S.

NASA has located four TAL sites, two in Spain and two in Africa. Ben Guerir Air Base, Morocco; Yumbum International Airport, Banjul, The Gambia; Moron

Air Base, Spain; and Zaragoza Air Base, Spain.

Ben Guerir

Morocco is located on the northwest coast of Africa. The Morocco landing site, Ben Guerir Air Base, was named a TAL site in September 1986. The air base was a former strategic air command base abandoned in 1963. The airport has one runway, north-south direction, which is 14,000 feet by 200 feet with a 720 foot overrun at the north end. To support a shuttle landing, the runway has been modified and buildings have also been added. NASA has also put in additional fire-fighting equipment, vehicles and other ground support equipment.

Yumudum

Yumbum Airport, also located in Africa, was named a TAL site in

September 1987. Yumudum is the Gambia's International airport, located adjacent to the capital, Banjul. The runway is 11,810 feet by 150 feet wide, with 200 and 400 foot overruns.

Moron

Moron Air Base, located in Spain, was named a TAL site in 1984. The Moron Air Base has a 11,800 feet by 200 foot runway with 1,000 foot overruns.

Zaragoza

The Zaragoza Air Base, designated a TAL site in 1983, has two parallel runways, one 9,923 feet by 197 feet and the other is 12,109 feet by 197 feet. The air base is currently used by the U.S. Air Force.

For comparison, The Kennedy Space Center has a 15,000 foot by 300 foot runway with 1,000 foot overruns. The shuttle will usually use 10,000 feet of rollout distance for a typical flight.

In addition to the Kennedy Space Center, the other U.S. landing sites include Edwards AFB and White Sands, New Mexico. Edwards AFB is currently the normal end of mission landing site. It was chosen because of the large area of landing surfaces created by the dry lakebed.

The TAL sites also have various navigation and landing aids. Each site has a TACAN (Tactical Air Navigation System) and a MSBLS

(Microwave Scanning Beam Landing System). The TACAN is used for bearing and distance to the runway, while the MSBLS is used for proper elevation landing angle.

For the outer glide slope, the orbiter uses PAPI (Precision Approach Path Indicators), and for the inner glide slope it uses Ball/Bar lights.

Distance-to-go markers allows the crew to determine the distance to the end of the runway during rollout, while in the event of a

night landing, xenon lights, high intensity flood lights are used.

The Ball/Bar, PAPI lights, distance-to-go markers and xenon lights are installed prior to a launch and dismantled afterwards, and are therefore not used during normal airport operations.

Each landing site has sufficient weather data from satellite hookups with additional data coming from the U.S. Defense Department.

New to the sites will be the Shuttle Arresting System, developed during the post-challenger era, which prevents the shuttle from leaving the runway via a net. The net is stretched across the runway, similar to aircraft carrier barrier nets.

Fire, crash and rescue resources includes a team of NASA personnel, while the country in which the air base is located will supply additional equipment. The two airstrips in Spain are being used by

the U.S. Air Force, which has the equipment already there.

The U.S. Defense Department positions C-130 aircraft to transport equipment or for pararescue in case the astronauts bailout of the shuttle.

About a week prior to a shuttle launch a team of U.S. personnel arrive and activate the TAL site while a team of medical personnel arrives 24 hours before launch.

If the TAL is to be used for an emergency, the U.S. State Department will make the necessary arrangements including clearing the airspace. At the same time NASA will deploy a RRT (rapid response team) consisting of trained personnel capable of handling the shuttle; they will arrive via a C-141 within one day.

NASA estimates it would take 55 C-141 and 30 C-5 aircraft sorties for a complete turnaround. Not mentioned is how to get the shuttle home. Either a NASA Boeing 747 can fly it, or a barge can ship it.

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ANSWERS (continued from page 10)

1. (c) Typical servings of wine, beer, and liquor contain equal amounts of alcohol. A standard serving of a 12-ounce bottle or can of beer, a five-ounce glass of wine, and a drink containing 1.25 ounces of liquor, all contain the same amount of pure alcohol: 0.5 ounce. A drink is a drink, no matter what you drink.

2. (b) Switching won't affect your Blood Alcohol Content. Consumed at the same pace, and assuming typical servings, switching has no more effect than not switching; your alcohol intake remains the same. As for the feeling terrible, it may happen, not necessarily because of the alcohol, but because of the mix of non-alcoholic ingredients.

3. (d) Drinking slowly, eating beforehand, and snacking as you drink will all slow down the effects of alcohol. All three are responsible ways to drink at a party. On the average, the body needs about an hour to "burn off" any typical drink, whether wine, beer, or liquor, so pace yourself accordingly.

4. (b) To pace yourself, moderate the amount you drink. Whether it's beer, wine, or liquor, alcohol requires no digestive processing. Moments after your first sip, alcohol passes through the walls of the stomach and small intestines directly into the bloodstream. In a few more moments, it reaches the brain. If you take several drinks in one hour, for example, you'll feel the effects and your Blood Alcohol Content will rise above the acceptable level.

5. (a) If you think you've drunk too much, stop. Then eat something. Only time will solve the problem. A 30-minute wait isn't enough time; neither coffee nor fresh air can speed the process. The best thing to do is to drink water or milk and eat something substantial and wait it out. Above all, don't attempt to drive; if you want to go home, get someone reliable to take you. Next time remember to pace yourself.

6. (c) If you're watching your weight, count your calories. According to the U.S. Department of Agriculture's measure, a five ounce glass of wine contains about 114 calories, a bottle of regular beer about 148 and 1.25 ounces of spirits, 88 calories. Whatever you choose to drink, the recommended procedure is to trade off the calories with those in a food item such as a dessert. (Don't drop an essential nutrient from your diet.) Calories from alcohol supply no nutrients except energy.

7. (c) Labels on beer, wine and liquor vary in what they tell you. Beer labels usually don't tell you the alcohol content. Wine labels record alcohol content by percentage of volume. Liquor labels record their "proof", a term derived from the "proving" of alcohol content in tests distillers used centuries ago.

8. (c) Drinking "lightly" means moderating the amount you drink, not what you drink. The fact is that beer, wine and liquor are all beverage alcohol and typical servings of each can have the same effect on you.

Red Cross details eight good reasons to save a life

Mid-Florida Chapter
American Red Cross

There are many misconceptions about giving blood and how donated blood is used in the community. The following are some facts everyone should know about blood donated to the Red Cross:

1. Five to six hundred units of blood are needed each week for hospital patients in our community.
2. There is absolutely no danger of contracting any diseases by donating blood. The only blood a person comes into contact with is his own; the needle is sterile, used one time, disposed of and burned.
3. It takes less than 10 minutes for

the blood to leave a person's body and enter a blood bag. The entire donation process takes about 45 minutes. That's not much time to save a life!

4. The donation of one unit of blood can actually save the lives of three hospital patients. Blood can be separated into three components (red cells, plasma, and platelets) to be used by three individuals.

5. The blood and blood products can be used by surgery patients, accident and trauma victims, chemotherapy and radiation patients, hemophiliacs, shock victims, school children and travelers (innoculations).

6. Mid-Florida American Red

Cross Blood Services is the sole source of blood for 12 hospitals in Volusia, Flagler and Brevard Counties.

7. Over 85% of the entire population will use blood during their lifetime, but only about 3% donate blood regularly. The demand for blood increases almost daily. This handful of donors can't continue to meet the total needs of hospital patients, needs we all have at one time or another.

8. Approximately 25% of our total blood collections come from area students. This percentage includes both high school and college students.

During Spring Break of 1986, a



young girl was hit by a car on A1A. She received 464 units of blood in 23 days. That amount of blood is almost the supply needed by 12 hospitals for a week. This just shows how important it is to donate blood on a regular basis to assure that a safe and ample supply of blood is on hand when needed.

GREG (continued from page 3)

Milwaukee's Best with a high price label. Unless you know and appreciate the vintage, high dollar figures should not constitute sound judgment. The lesson here being, know and enjoy the wine you drink, but realize that it is the inquisitive who enjoy wine most.

Also, realize the stature of the company you are entertaining. If you are having Bob & Mary from "Bob & Mary's Sewage Services," you could probably get along by serving a local squeeze that was produced tomorrow, while cunningly manage to fill your goblet with a prize Blaujolais. On the other hand, serving Reunite to guests from Pouilly or Bordeaux can only trans-

late into an insult of the highest order, (which ultimately means you can spend more time with the sewage people). The moral, know where your guests are coming from, sociologically and geographically.

Finally, there's no need to become snobbish when it comes to wine. In order to enjoy the beverage one does not have to become familiar with the chemical processes of malolactic fermentation, or know from what region the best Sciacarello grapes are harvested. This knowledge only adds a bit of zest to the whole ritual. However, one should educate oneself enough to know that Burgundy and fish yield lethal flavors.

KISER (continued from page 1)

At Embry-Riddle, Kiser has served on the Refund Committee, the Computer Utilization Committee and the Faculty Development and Benefits

Committee. One project that Kiser feels very strongly about is offering a Summer Institute for re-certification of Volusia County School Teachers at Embry-Riddle. "If ERAU is to enter

the mainstream of universities in this area, we need to offer projects such as the Summer Institute. It is a commitment which will build a rapport with the community and allow the university to be recognized as a true univer-

sity and not just a fledgling fly-boy school." Kiser is committed to seeking funding for this project which he feels is an important step for the community and the University.

Dr. Lee Kiser is dedicated to the improvement of classroom instruction and very involved in moving the University into a bright future. His students are impressed by his abilities and recommend him to their friends. His projects are forward looking and will undoubtedly benefit the entire Embry-Riddle community.

How to be unemployed after you graduate:

- Rule #1 - Just send lots of resumes to lots of companies.
- Rule #2 - Think that the Career Center will get you a job.
- Rule #3 - Wait until your last semester to start looking.
- Rule #4 - Assume you know how to conduct a job search.
- Rule #5 - Rely solely on companies interviewing on campus.
- Rule #6 - Think that a good resume will get you a job.



How to find the job you want:

Rule #1 - Attend the new "Job Search Skills Seminar"

(Rules number 2 through 6 will be covered in the seminar.)



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At campuses around the country, students complain of jammed classes

by Michael O'Keefe

Classes at the University of North Texas are so overcrowded this fall that campus workers, scrounging around in basements to find old stools and desks for students to use, put into classrooms furniture that features graffiti like "Nixon's A Cool Dude" and "Mike Was Here 12/12/68."

It's no better at the University of North Dakota where the registrar has for years posted a list of closed classes for students to check. This fall, the registrar's office decided the closed classes list was too long. It posted a far shorter list of open classes instead.

In fact, students at many campuses are reporting extraordinary difficulties getting into classes this fall.

Mar College in Dallas, Villanova University in Philadelphia and Northeastern Louisiana report having more students than ever.

As a result, in recent weeks at Boston, North Carolina State, Tulane and Loyola of New Orleans Universities as well as at Grinnell College in Iowa and the Universities of Miami and Connecticut, among others, have run out of dorm rooms.

Now they're running out of classrooms.

legislature," concurred Houston Dean of Humanities James Pickering.

Student Mallon agreed, too. "It's all because the university can't offer other sections for the class because there's not funding."

And Illinois students can't count on things to improve soon. "We're realistic, and given what's happened in the last couple years, unless

Weekend College for a while."

The Texas state legislature, which meets just once every two years, funded North Texas based on 1986's enrollment, which has opened by 16 percent this fall.

As a result, students are packed into classrooms, doubled up and tripled up in dorm rooms or housed in local hotels and given desks to use during classes.

"The situation is only serious in that our state funding has not caught up with our enrollment, so we have to stretch to find those dollars to handle more students," North Texas Chancellor Alfred Hurley said.

"It left us in a bind," added Will Helixon, UNT's student president.

Helixon, who works as a teaching assistant for the communications department, said his classes have become "difficult" because they're too many students and sections for him to handle effectively.

Student governments and associations have stepped up efforts to persuade their states to increase higher education funding. In Texas, said Helixon, the newly formed Texas Student Coalition, composed of student governments from around the state, will lobby for more higher money.

At North Dakota, Glessner says his administration will continue to lobby the legislature, but will take another approach as well: "We're going to send students to community groups to convince them to pressure the legislature."

It's time we let the people send the message to the Legislature."

North Dakotans, he said, will respond when they hear from students how higher education in their state is declining.

"People are more receptive to students than they are to administrators asking for money."

Though reliable enrollment counts won't be out for several weeks, campuses in general seem to have become much more crowded this fall.

"In a history class I'm taking," Illinois' Mallon said, "there are 75 seats, which are bolted into the floor, for 100 people. We have 20- to 25 people standing through each class. The prof gave a 'weeding out' quiz so those that are not committed to the class will drop out."

At the University of Houston, Social Sciences Dean Harrell Rodgers had "no choice except to let classes get larger, to offer fewer sections ... because we just don't have as many faculty or the money to hire temporaries. Those facts are just beyond our control."

Everyone blames state legislatures for their problems.

Economically depressed states like Texas, North Dakota and Illinois "have not kept up funding," reported Elaine El-Khawas of the American Council on Education in Washington, D.C. "There's a financial squeeze on the Rust Belt states and the oil states."

"We need some relief from the

there's some major changes in their (Legislators') thinking, we're not going to get what we need," said University of Illinois Trustee Ralph Hahn.

At North Dakota, many crowded classes are now taught by teaching assistants and temporary lectures instead of full-time professors.

"The lack of funding from the state legislature has resulted in teachers being severely underpaid," said David Glessner, UND's student president. "We're losing faculty to other schools or private industry, and we can't replace them."

"We've made up for the lack of teachers mostly in the area of grossly underpaid lecturers," said Libby Rankin of the UND English department.

Enrolling in classes at UND proves so difficult, in fact, that freshmen registration director Bobbie Moore said she "advised some students not to give up their job in Grand Forks and take

When they do get courses, they find the classrooms themselves filled to overflowing.

"We're being stuffed into classes," grouched University of Illinois senior Michael Mallon.

Teachers hate it, too. "For the first time in my 17 years here, every seat in every section is filled," reported Ron Pynn, chairman of North Dakota's political science department.

"Students," added University of North Texas State English Prof. Robert Stevens, "have become helpless victims of my lectures. There's no room for give-and-take classroom discussions. And at a time when we're concerned about writing skills, there's no way I can give essay tests to 500 students."

Though reliable enrollment counts won't be out for several weeks, campuses in general seem to have become much more crowded this fall.

Schools as diverse as the University of Wisconsin-Eau Claire, Del

LETTERS

(continued from page 2)
 now I'm \$3205.00 in debt and building.
 Now YOU CAN'T apply the fee for a parking sticker to YOUR account.

SECURITY can, however, apply any tickets you get to YOUR account. something is screwed up. If the cashier had applied the fee to my account last week, I would have saved \$50.00, plus the money I'm spending on tickets. What should I do? Mr Tyson must be

under the impression that all Riddle students are wealthy. He won't grant any grace period until I have the money for a sticker, and the cashier's office won't help me by applying the charge to my account. The issue is not the \$12.00 or the fact that Mr Tyson

will not tell his staff to lay off my car for a short while. This is just another clear case off "Riddle Run A Round". Thanks for the break Mr. Tyson, I still don't have the money.
 John Gonzales
 Box 8356

CAMPUS INTERVIEW SCHEDULE

Naval Air Development Center

Warminster, Pa (Philadelphia)
 Opening day: Oct 11 (Tues)
 Interview date: Oct 25 (Tues)

AE & CS degrees. U.S. citizenship required. Aerospace Engineers are involved in all aspects of aerospace engineering design, analysis and development. Assignments may include design and testing of airframe structure stress and fatigue analysis, helicopter dynamics, mechanical equipment propulsion systems, digital flight controls and life-support systems. Computer Scientists are involved in new systems development, researched and system analysis, numerical and statistical analysis, and software engineering. No orientation. No honors slot.

Delta Air Lines

Pick up application forms in career center. Complete and return to career center by Oct. 21.

Recruiting for following positions:

1. A&P mechanics (Atlanta and Tampa).
2. Avionics mechanics (Atlanta)/Requires A.S. in Avionics Technology.
3. Line maintenance mechanics (Boston, Dallas, NY). Requires B.S. in AVTECH (Avionics and A&P).

McDonnell Douglas

Long Beach, Ca
 Opening day: Oct 13 (Thurs)
 Interview date: Oct 26, 27

Positions in product support: parts sales, commercial spares, traffic and distribution, customer service, publications, maintenance engineering, MIS. This is hands-on work dealing with customers. It is not design engineering (engineering folks will recruit in November). Looking mainly for technician types. 4-year degree required. December grads only.
 Orientation: 7:30 pm, Oct 25, E609

General Dynamics

Cocoa Beach, Fl
 Opening day: Oct 14 (Fri)
 Interview date: Nov 2 (Weds)

A&P license required. Positions as Launch service mechanic (checkout, troubleshoot, structural installation and servicing of mechanical systems of space vehicles) and launch service technician (install, checkout, troubleshoot, modify, repair space vehicle electrical system). U.S. citizenship required. December grads only.
 Orientation: 8:00 am, Nov 2, FSL



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Anytime is the right time to party hearty at the Ocean Deck.
 Dance or listen to Daytona's finest band, "Windjammer". The sounds of the islands, live Reggae at its best, 7 nights a week!
 The Ocean Deck specializes in seafood, oysters, clams, shrimp, sandwiches, great drinks, beer & wine.
 Open 11 a.m. to 3 a.m.
 Next to the Mayan Inn Directly on the ocean.

Monday-\$1.00 Hien, \$1.00 well drinks
 Tuesday-Mexican nite \$1.50 Corona, half price nacho
 Wednesday Ladies nite, All ladies drinks \$1.00
 Thursday Bocks nite, All Becks beer \$1.00

Every Sunday



Catholic Masses
 10 a.m., 7 p.m., & 10 p.m.

Protestant Services
 11:15 a.m.

Spruance Hall Atrium

Sailboard Team prevails

by Kyle Weststrate
Avion Sports Editor

The Embry-Riddle Sailboard Team took part in a sailboard race on Lake Monroe, near Sanford last Sunday, Oct. 16.

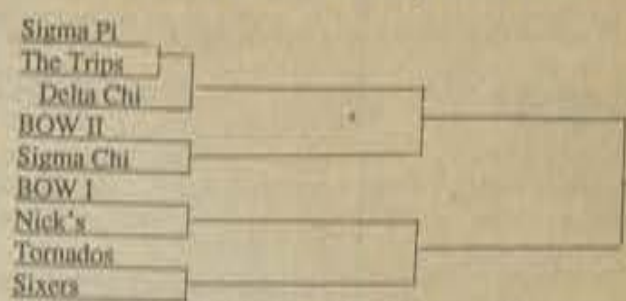
There were approximately 45 competitors in the race sponsored by Sunset Sailboards of Lake Monroe, and the Central Florida Boardsailors.

The Embry-Riddle Sailboard Team was sponsored by Sandy Point Sailboards of Daytona Beach.

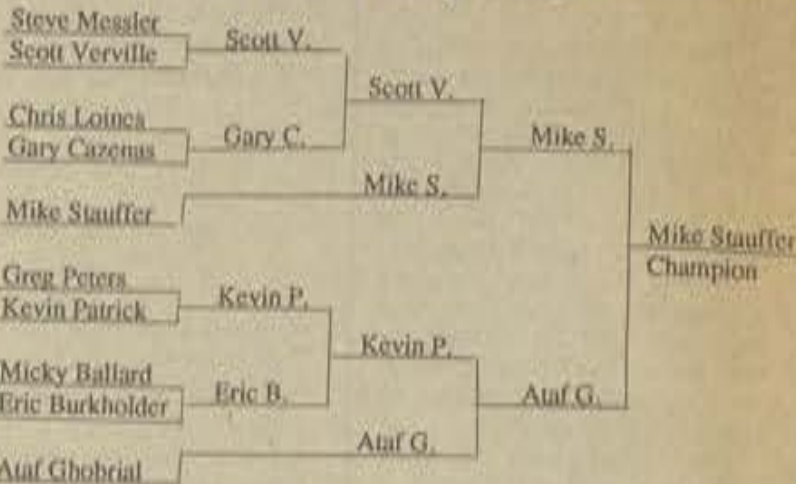
Several winners from Embry-Riddle included Angie Renfroe (70ER; 1st Place, Woman's class), Chris Benway (69ER; 2nd Place, B-fleet), Bill Dolan (10ER; 3rd Place, Restricted class), Dan Bilodeau (02ER; 4th Place, Limited), and Joe 'Finbox' Collins (19ER; 7th Place, Limited).

Team members described the race weather as perfect. When the team first arrived, the winds on the lake were a ripping 18 knots due to local convection and by the first race the winds had slowed to an average of 10 knots.

Basketball Playoffs



Racquetball Playoffs



Game Point...
A member of an ERAU intramural volleyball team goes for the game-winning spike during last week's games. Play continues every Monday and Wednesday at the volleyball courts.

6/6 Volleyball

Team	Record
Bloody Facials	14-0
S.O.D.	14-1
Icaros	8-1
Wildbeasts	11-2
Lambda Chi Alpha	10-2
Need a Team	10-2
Sandbaggers	11-3
Falcons	9-3
Christian Fellowship	10-5
Loban Flyers	8-4
Delta Chi	6-3
Team Lambda Chi	6-3
B.O.W. I	7-5
F.O.D. Eliminators	6-6
We'll Never Win	3-3
Beasts Best	5-7
Sigma Chi	5-7
Attitude Adjusters	6-9
Tailhookers	5-10
Windsox	5-10
Jet Setters	4-8
A Few Screws	4-11
Hawks	3-9
Riddle Riders	3-9
Untouchables	3-12
Prime Time Players	2-10
Undecided Generics	1-9
Army ROTC	1-11

3/3 Basketball

Team	Record
Nicks	4-1
Delta Chi	4-1
Sixers	4-1
B.O.W. I	4-2
Tornados	3-2
Sigma Chi	3-2
B.O.W. II	2-2
Sigma Pi	1-3
The Trips	1-4

Racquetball

Name	Records
Jim Herrera	6-0
Mike Stauffer	6-0
Atef Ghobrial	5-1
Russell Brown	3-3
Andrew McGibbon	3-0
Jeff DiCostanzo	1-5
William Smith	0-6
John Washington	0-6

Flag Football

Team	Record
Grim Reapers	3-0-0
SAD	2-0-1
Daytona 69ers	2-0-1
BOW 1	2-0-1
Vets Club	2-0-2
Wolf Pack	3-1-0
Delta Chi	3-1-0
Alpha Eta Rho	3-0-0
Queebers	3-1-0
Beaver Bandits	3-1-0
The Force	3-1-0
Kappa Alpha Psi	2-1-0
The Eaters	2-1-0
Strike Eagles	2-2-0
Wild Ducks	2-2-0

Upcoming Events

EVENT	SIGN-UP BY	PLAY BEGINS
MINIATURE GOLF TOURNAMENT	MON., 10/24	THURS., 10/27
GOLF TOURN. & SPEC. FLOOR HOCKEY	MON., 10/24	WED., 10/26
TENNIS SINGLES	MON., 10/31	MON., 10/31
UFS&G FLAG FOOTBALL TOURNAMENT	MON., 10/31	SAT., 11/19
3/3 ULTIMATE FRISBEE	TUES., 11/1	SUN., 11/6
WEIGHTLIFTING CONTEST	TUES., 11/15	FRI., 11/18

Sign-up NOW and participate in these exciting activities. For additional information concerning these events or other upcoming events, please go to the Recreation Department office in the building beside the pool.

KYLE'S FOOTBALL POOL

*Kyle's 70%

Cleveland	at	Phoenix *
Dallas	at	Philadelphia *
Denver	at	Pittsburgh
Detroit	at	Kansas City *
Houston	at	Cincinnati
Indianapolis	at	San Diego *
LA Raiders	at	New Orleans *
Minnesota	at	Tampa Bay
New England	at	Buffalo *
NY Giants	at	Atlanta
NY Jets	at	Miami *
Seattle	at	LA Rams *
Washington	at	Green Bay

TIEBREAKER: Predict the score of one game. List teams with scores.

NAME:

PROGRAM:

ERAU BOX AND PHONE:

Rules of the contest: Circle the team that will win the game. Return the game card to the Avion or drop in Campus mail by the Friday before the game. The winner will be posted and will receive a Free pitcher of beer or soft drink at Spanky's Pub and Club during Monday Night Football.

Lasts weeks winner was Vinnie John, an Aeronautical Engineering student. He correctly predicted 10 of 13 games.



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FRIDAYS AND SATURDAYS

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EMBRY-RIDDLE AERO UNIV
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SE HABLA ESPANOL MILAME ELLHNIKA (Please ask for Chris)

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Call Kenny 255-2581 CLOSEOUT Assorted McPherson Struts \$20 Pair or \$10 A MONTH

SIZE	SALE PRICE
P175/70R-13	\$4.95
P185/70R-13	\$7.97
P195/70R-13	\$5.95
P195/70R-14	\$9.75
P195/70R-14	\$12.21
P205/70R-14	\$4.71
P215/70R-14/15	\$8.95
P225/70R-15	\$3.01
P235/70R-15	\$5.89

Monthly pmts. \$15.00 or \$20.00 month

WHY BUY A RECAP? Pay as low as \$10.00 mo.

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16X175R-13	\$2.99
16X175R-13	\$3.99
17X170R-13	\$5.99
18X170R-13 & 14	\$7.95
16X19	\$8.99
16X190-15	\$1.99
P105/75R-14	\$4.95
P205/75R-15	\$8.95
P215/75R-14 & 15	\$8.95
P225/75R-15	\$3.95
P235/75R-15	\$5.95

WHY BUY A RECAP? Pay as low as \$10.00 mo.

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185/70R-14 15.00 205/70R-14 General 18.00
185/70R-14 18.00 215/70R-14 22.00
185/70R-15 18.00 215/70R-15 22.00

HIGH PERFORMANCE RADIAL HR-RATED TIRES ARE 300 TREADWEAR

SIZE	PRICE	SIZE	PRICE
P195/70R-13	\$1.2	P235/60R-14 & 15	\$5.44
P195-205/70R-14	\$5.29	P275/60R-15	\$2.47
P215/70R-14 & 15	\$3.25	P215/60HR14 & 15	\$9.25
P225/70R-14 & 15	\$2.25	P215/60HR14 & 15	\$4.95
P215/60R-14	\$5.98	P215/65HR 15	\$4.09
P235/60R-14 & 15	\$2.25	P215/65R 15	\$1.74

Beachside 140 Main 7:30-7 PM Sunday 11-4 255-2581

254-1988 Westside 1010 Volusia Daytona Mall 10-7 PM All day Sat.

ATTENTION COUPON CLIPPERS

We honor coupons from the following competitors: Allied, Big John, Big T, Dan Cook, Davco, Jaxco, Phoenix, Galtway, Lanner, Paper Mill. It's our target! Expiry on 10/31/88. Only one coupon per purchase accepted.

STEVENS TIRE

MAIN ST., OPEN SUNDAY

When others close we're open! Open to 7

Events revealed for annual homecoming festivities

by Ray Natac
 Plans for Embry-Riddle's Second Annual Aviation Homecoming Festival are progressing. The event is to begin on Monday, Nov. 7, with static displays, and end on Saturday evening with the outdoor concert.
 A host of entertainment events are planned for homecoming, according to Kathy Novak, Director of Student Activities. A comedy show, founder's day barbecue, and outdoor concert are among those under consideration.
 Saturday's outdoor concert will feature the bands Bad Company and The Romantics. Both bands recently

have had Top 40 hits. Currently, Bad Company has a song, "No Smoke Without A Fire," currently number six on Billboard's Album Rock Tracks. It has been holding on to this position for the past nine weeks.
 Though the list of events scheduled are tentative, the following is a list of activities presently planned:
Monday, November 7
 Static displays, photography contest, banner contest, dorm competitions - softball, tennis tournament, speaker - Mrs. Len Bias.

Tuesday, November 8
 Static displays, photography contest, banner contest, dorm competitions - softball, tennis tournament.

Wednesday, November 9
 Static displays, photography contest, banner contest, tennis tournament, volleyball tournament, basketball game ERAU vs DRCC.

Thursday, November 10
 Static displays, photography contest, banner contest, tennis tournament, volleyball tournament, alumni speakers, alumni welcome, comedy show.

Friday, November 11
 Static displays, Veteran's Day Luncheon Speaker - Don Lopez, slide presentation of J. Paul Riddle, alumni speakers, volleyball tournament, J. Paul Riddle Founders BBQ, Basketball game ERAU vs. Gordon.

Saturday, November 15
 Static displays, golf tournament, model airplane demonstration, tennis tournament, LaCrosse Game, softball game - faculty/staff vs. alumni, volleyball game, art/sculpture exhibition, outdoor concert.



AVIATION HOMECOMING FESTIVAL

SUBMIT TO THE STUDENT ACTIVITIES OFFICE:

'The Sky's The Limit'
 Photo Contest
 DEADLINE: Nov. 4, 1988

Sponsored by Student Activities
 This is the 2nd Annual Photo Contest, run in conjunction with ERAU's Aviation Homecoming Festival. We encourage you to get involved and submit your photo entry(ies) for this year's event.

Categories: Color prints
 Black & White prints
 Best in Show

Criteria: The judges will be looking for photographic quality, creativity, and emotional appeal. All photos should be titled, and are preferably 5x7 inches or larger (smaller photos will be accepted).

All photos must be placed in an envelope with your name, box number or extension number & department name. All students must also include their Social Security number and phone number on this envelope. At time of entry, your photo will be numbered, and you will receive a slip showing your entry number. The entry numbers and photo title, will be the only way judges view your photo.

All photos will be returned to your box or department, unless you would like to donate your photo to the University for future display. Please identify this on your entry envelope, if you are going to donate your photo.

Awards will be presented at the Homecoming Barbecue, set for November 11, 1988.

Cash awards, certificate of merit and (hopefully) merchandise awards will be given.



It's a different kind of class.

AVION

We have no tests, no exams, no quizzes.
 We have only quality journalism.
 Our class curriculum ranges from shuttle launches to black-tie receptions.
 Our assignments mean interviewing the CEO of Piper, or photographing a Corsair while hanging out the door of a DC-3.
 Our only textbooks are those used to sit on, to see out of an open-air cockpit of a barrel-rolling Waco.
 Our only presentation is the creation of an entire newspaper -- from only a few ideas conceived the week before.
 Learning in our class means learning about

yourself. Communication skills are a requirement for any job, in any career. The Avion teaches you to succeed in the career of life.
 We need a full classroom. We need people who believe that success comes from hard work, persistence and determination. We need people who aren't afraid to seek the truth.
 Tuition is free.
 To register, visit our office upstairs in the University Center.
 If you have a desire to learn, to succeed and to be the best -- or, if you just have a black-tie and a dinner jacket -- then join our class of education. Avion class.

Divertissements by Brian Lessin

ERTE...Erte: Sculptures and Works on paper. The Reid Hughes (ERAU Board of Visitors member) collection. The Board of Trustees and the Guild of the Museum of Arts and Sciences cordially invite you to attend a reception and a preview of the exhibition Saturday, October 29, from seven to nine o'clock. This exhibition is sponsored by the Daytona Beach Area Board of Realtors.

FREESTYLE BLOWOUT...The Swatch Impact Tour with the world's top pro skateboarders and freestyle bicyclers are at the Ocean Center Friday, October 28, at 7:30 PM. Tickets are \$10.00 in advance and \$12.50 the day of the show. Tickets are available at the Ocean Center box office and all TicketMaster locations. For more information call 904-254-4545.

SOME STILL AVAILABLE...There are still a few 1988 Phoenix yearbooks left. You can still pick yours up in the U.C. between the hours of 10 AM and 2 PM. Hurry up before they are all gone.

TICKETS LEFT...Tickets are still available for the George Michael concert on October 23, at the Citrus Bowl in Orlando. For information call 1-800-446-3939.

TALENT NITE '88...Auditions for ERAU's TALENT NITE '88 will take place on November 13 in the University Center. Contact the Entertainment committee, on the west side of the U.C. for more information.

SPEAK UP ERAU

Are you satisfied with Bad Company and the Romantics for the Homecoming Concert

Yes

No

Please send your opinion to the Avion
You may send this through the campus mail

Beer Drinkers expand across America

Press Release

A non-profit consumer organization that encourages young adults to "Party Smart" has embarked on a 14-state expansion drive.

Beer Drinkers of America launched its ambitious expansion from four states to 18 states in early September to spread its "Party Smart" message to a wider audience, according to Executive Director Paul Fagan. He said "the organization also seeks to recruit new members nationwide through the end of 1989."

"Beer Drinkers of America is a grassroots consumer organization," Fagan explained. "Our purpose is two-fold: to promote responsible alcohol consumption through our 'Party Smart' education project, and to protect Americans' right to

enjoy beer free from undue legislation such as regressive excise taxes."

The organization was founded in 1987 as Beer Drinkers of New Mexico. With champion race car driver Bobby Unser, Jr. serving as honorary chairman, the organization attracted more than 3,100 dues-paying and quickly became one of New Mexico's largest non-profit consumer organizations.

In March 1988 the organization branched into three other states - California (national headquarters are in Costa Mesa), Colorado and Arizona - and became known as Beer Drinkers of America in those four states. The organization currently has more than 10,000 dues-paying members, according to Fagan.

Beer Drinkers of America is now expanding into Texas, New York, Florida, Pennsylvania, Illinois, Ohio, Michigan, New Jersey, Wisconsin, North Carolina, Virginia, Georgia, Missouri and Indiana.

"The response to Beer Drinkers of America and the 'Party Smart' project has been phenomenal and has allowed our program to expand quickly," Fagan said.

Nancy Olenick, Ph.D., the organization's national education director, said the continuing expansion will introduce more young adults to the "Party Smart" message of responsibility.

"Party Smart is a peer-driven program that encourages young adults to adopt responsible and safe drinking habits," explained

Olenick, a former University of California who has studied alcohol abuse.

"The important message we carry forward through 'Party Smart' is to think before you drink. If you're not sober, or if you're not sure, don't drive! Let someone who is sober do the driving."

Through direct contact with free information kits that contain "Party Smart" label stickers, buttons, posters and a brochure, which explains how party hosts and their guests can minimize alcohol-related accidents.

For more information on Beer Drinkers of America and "Party Smart," contact the organization at 2900-D Bristol St., Ste. 201, Costa Mesa, Calif., 62626. Or phone 1-800-441-2337.

Beer Drinkers of America Fact Sheet

DESCRIPTION: A non-profit consumer membership organization open to persons over the age of 21. Beer Drinkers of America advocates the rights of Americans to drink responsibly and remain free from excessive government regulation or unfair taxation.

NATIONAL HEADQUARTERS: 2900-D Bristol St. Suite 201

Costa Mesa, CA 92626

(714) 557-2337

FAX: (714) 557-2408 1-800-441-2337

FOUNDED: February 1987 as Beer Drinkers of New Mexico. Became Beer Drinkers of America, moving into four new states, in March 1988. Expanded to 18 states late in 1988.

HONORARY CHAIRMAN: Bobby Unser, Jr.

EXECUTIVE DIRECTOR: Paul Fagan

EDUCATION DIRECTOR: Nancy Olenick, Ph.D.

ORGANIZATIONAL GOALS: (1) Promote responsible drinking by adults who choose to drink through Beer Drinkers of America's "Party Smart" public education program; (2) Remind government officials that the vast majority of beer consumers are responsible drinkers; (3) Stop government from unfairly taxing beer drinkers; and, (4) Provide members with interesting information about beer.

PARTY SMART PROGRAM: "Party Smart" is a peer-driven education program aimed at young adults who have made the conscious decision to drink. The program's objective is to demonstrate to young adults how they - and their friends - can take part in an exciting party experience while, at the same time, consuming alcohol in a responsible manner.

POLITICAL ISSUES OF CONCERN: Proposed increases of beer excise taxes and proposed beer advertising bans.

NUMBER OF BEER DRINKERS IN AMERICA: 80 million.

CENTRAL FLORIDA EVENTS THIS WEEK

October 19-23

Home Show
Ocean Center 2 PM to 9 PM
Free Admission

October 20

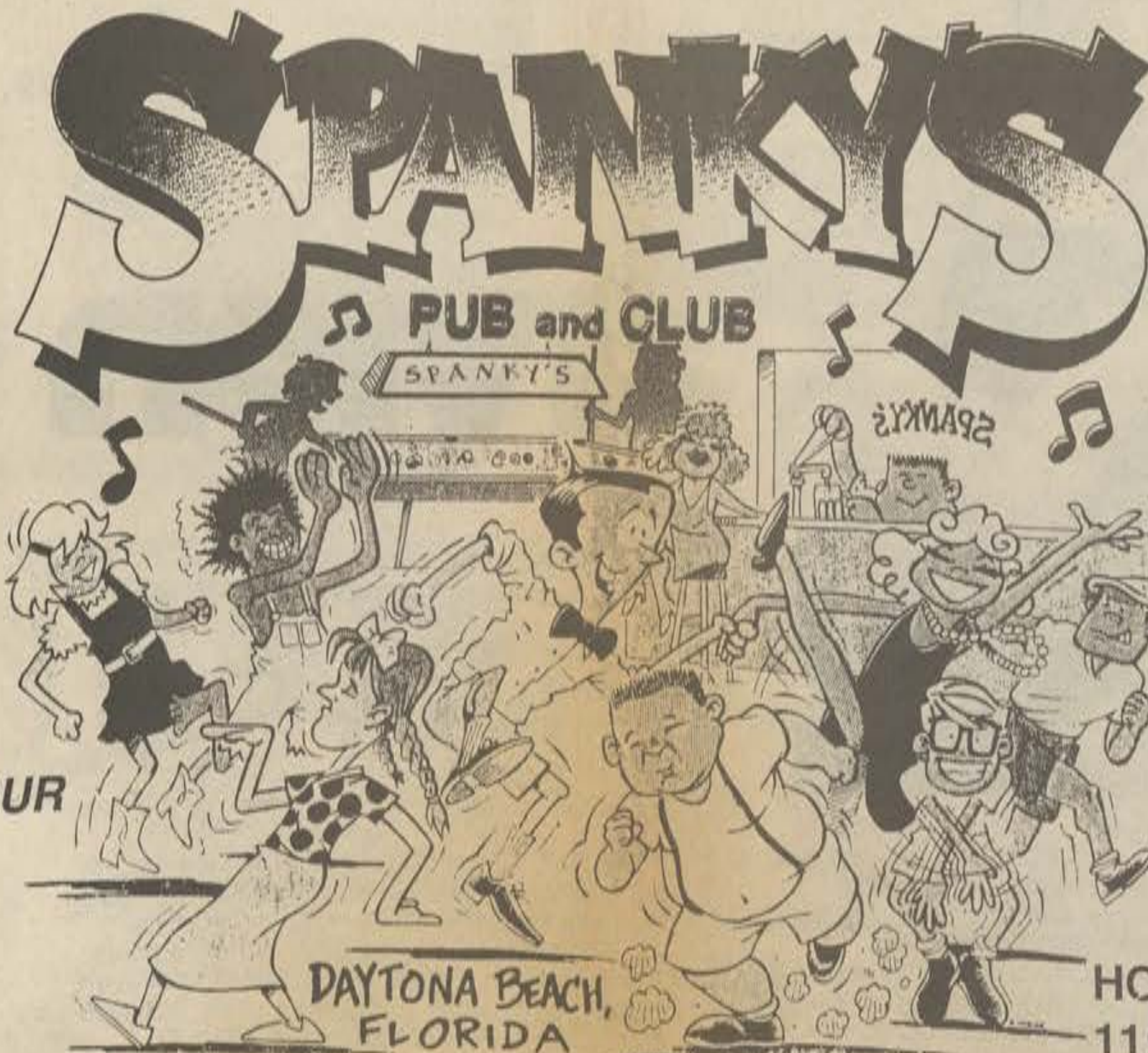
Charlie Daniels Band
Cheyenne Saloon, Orlando

Louie Anderson
Ruth Eckerd Hall, Clearwater

October 23

George Michael
with The Bangles
Citrus Bowl, Orlando

Proud Sponsor of the 1988 Riddle Regatta



HAPPY HOUR
4-7P.M.
MON-FRI.

SATELLITE T.V.

FREE MEETING SPACE
FOR ANY RIDDLE CLUB

FULL LUNCH & DINNER MENU
1 MILE FROM E.R.A.U.

HOURS
11:30AM-2:00AM
(3:00A.M. FRI,SAT)

252-9759

MON NITE FOOTBALL
3.00 PITCHERS, 2 FOR 1
HALF TIME MUNCHIES

TUES NITE \$1.00
DOMESTIC BEER

WED ERAU NITE
\$2.50 PITCHERS COORS
2 FOR 1 LADIES

THUR. NITE .99 DRINKS

Skateboard and bike concert in town *Disney searches for stuntpersons*

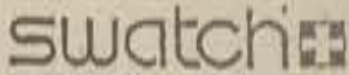
by Kathryn O'Rourke
Fantasma Productions

The Swatch Impact Tour is traveling the entire United States this fall. The question most people ask is, "What is this tour about?" The answer lies in the following letter to any one who has any questions about the Swatch Impact Tour.

Most spectator events held for skateboarding and biking are contests or small-scale demos. The Swatch Impact Tour is not a contest and it is no small-scale demo either. This tour is more on the scale of a rock & roll concert than of a demo. The tour will come to Ocean Center Friday, October 28 at 7:30 p.m.

The Swatch Impact Tour is better than a contest, because the riders will be performing tricks together in choreographed routines, not just riding the ramp solo. You can expect routines involving as many as eight riders on the ramp at one time. Yet like in a contest the riders will perform their best tricks, moves like the McTwist and 360 airs to name a few. Question: "Have you ever seen two skaters doing aerials over each other?" You are going to be on the edge of your seat every moment of this show.

The stage for the show is a thirteen-ton half pipe constructed totally out of steel. It is 55 feet wide and 30 feet deep. The ramp was specially designed to meet the needs of the skaters and bikers on the tour, with two different heights on vertical transitions. This ramp is to be entered into the Guinness Book of World Records as the biggest portable ramp ever.



Along with the Impact Tour Ramp, the set includes a large video screen filled with brand new skating, biking, surfing and snowboarding action. Some other things to look for in the video segments will include up-close and personal interviews with the skaters and bikers, the history of modern skateboarding, a segment showing how a skateboard is made and comical but helpful safety tips.

The last element of the set is a concert size music system, as you would find at a rock concert. An interesting DJ with a mod personality will be spinning the latest music to skate and to thrash by.

Well, it's time to tell you a little about the skaters and bikers that will be performing in your city. They are skateboarders Gator Mark Anthony, Chris Miller, Jeff Phillips and Kevin Stabb, bikers Ron Wilkerson and Brian Blyther, and roller-skater, Jimi Scott. Flash: just added to the tour will be skateboarder Joe Johnson and freestyle biker Matt Hoffman.

Tickets for this live action vertical freestyle blowout are \$100.00 in advance and \$12.50 day of the show and are on sale now at the Ocean Center Box Office and all TicketMaster Outlets.

Order by phone with VISA or MasterCard by calling (904) 254-4545 or (800) 858-6444 of (800) 446-3939 (nominal service charge). Mail orders are accepted, with check or money order, by sending to: Ocean Center, P.O. Box D, Daytona Beach, Florida 32018. (Include \$2.00 for postage and handling and be sure to specify event and number of tickets desired).

Lake Buena Vista, Fla. -- The new Disney-MGM studios is looking for a few fall guys and gals, men and women who don't mind being chased by 20-ton rocks, shot at and being blown up daily.

In fact, when Disney talent scouts come to Tallahassee Oct. 18, Sarasota Oct. 20 or Orlando Oct. 21, they will be looking for 50 would-be stuntmen and stuntwomen for roles in a live-action show at the Walt Disney World park which opens to the public in May 1989.

Experience gymnasts, acrobatic troupes (four to six members and actors with stage combat, stunt or circus performance and sports acrobatics background best fit the bill.

Overseeing the auditions will be two of Hollywood's leading stuntmen. Glenn Randall Jr. and Bob Yerkes, both with an impressive list of credits, will use their firsthand knowledge of the business to select the best performers.

Randall, a 25-year veteran of the film industry, has coordinated stunts for dozens of box office hits including "Raiders of the Lost Ark", "Indiana Jones and the Temple of Doom" and "Return of the



Jedi."

Yerkes, whose most recent performance was that of double for Bob Hoskins in "Who Framed Roger Rabbit?", has also been a stunt-double for Arnold Schwarzenegger and is responsible for coordinating stunts and training the actors/performers "escaping" exploding trucks and planes, machine gun fire and even a "rolling boulder."

Disney needs to fill seven principle roles including a male "adventurer" and a female "heroine." The remaining lead roles include "directors" and "camera

operators." Since the show is performed several times daily, 50 performers will be needed for two separate casts.

All gymnast participants will be taught a gymnastic combination and maybe asked to participate in script reading. Actors must have professional experience, be in good physical shape, and will participate in a separate gymnastic combination. All applicants must be at least 18 years old.

For more information contact Walt Disney World Co. Auditions at (407) 345-5701, Monday through Friday, 10 AM - 4 PM.

The Puzzle



ACROSS

- 1 Cook in oven
- 6 Surfeited
- 11 Breed of sheep
- 12 Crippled
- 14 Italy; abbr.
- 15 Obstructs
- 17 Falsifier
- 18 Obscure
- 20 Part of flower
- 23 Prefix: three
- 24 Sandalwood tree
- 26 Dirties
- 28 Symbol for tellurium
- 29 European lynch
- 31 Apparitions
- 33 Mental image
- 35 Pintail duck
- 36 More precipitous
- 39 Doctores
- 42 As far as
- 43 Hindu garments
- 45 Greenland settlement
- 46 Be ill
- 48 Plunders
- 50 Hasten
- 51 Hard hit with fist
- 53 River duck
- 55 Compass point
- 56 Calm
- 59 Football team
- 61 Charge the account of
- 62 Remains at ease

DOWN

- 1 Retreat
- 2 Either
- 3 Succor
- 4 Break suddenly
- 5 Heavy volumes
- 6 Symbol for samarium
- 7 Cooled lava
- 8 Sesame
- 9 Send forth
- 10 Lack of sufficiency
- 11 Fabulous king
- 13 Evaporates
- 16 Pack away
- 19 Girl's name
- 21 Ventilates
- 22 South American animal
- 25 Is borne
- 27 Sit
- 30 Katmandu is its capital
- 32 Motars
- 34 Danish island
- 36 Pierces
- 37 Labored

Movies

AMC Volusia Square 8 Theaters

- 1. Die Hard 1:30, 5, 7:30, 9:55
- 2. Punchline 1:45, 5:15, 7:30, 9:55
- 3. Gorillas in the Mist 1:30, 5:00, 7:30, 9:55
- 4. Elvira 2, 5:45, 8:00, 10:15
- 5. Murder One 2, 5:45, 8, 10:15
- 6. Crossing Delancy 1:45, 5:30, 7:45
- 7. Pascal's Island 1:45, 5:315, 7:45, 9:45
- 8. Memories of Me 2:00, 5:30, 7:45, 9:45

United Artists Mall Cinemas 1-3

- 1. Imagine 1:30, 3:30, 5:35, 7:30, 9:30
- 2. Cocktail 1:55, 3:55, 5:55, 7:55, 9:55
- 3. Crocodile Dundee II 3:20, 5:30, 7:35, 9:40

Daytona 6

- 1. A Nightmare On Elm Street 4 2:00, 5:30, 8:00, 10:30
- 2. A Fish Called Wanda 1:45, 5:15, 7:45, 9:55
- 3. Midnight Run 1:30, 5:00, 7:30, 9:55
- 4. Tucker 1:30, 5:15, 7:45, 10:15
- 5. Married to the Mob 2:00, 5:00, 7:30, 9:55
- 6. Young Guns 1:30, 5:30, 8:00, 10:15

(continued on page 19)



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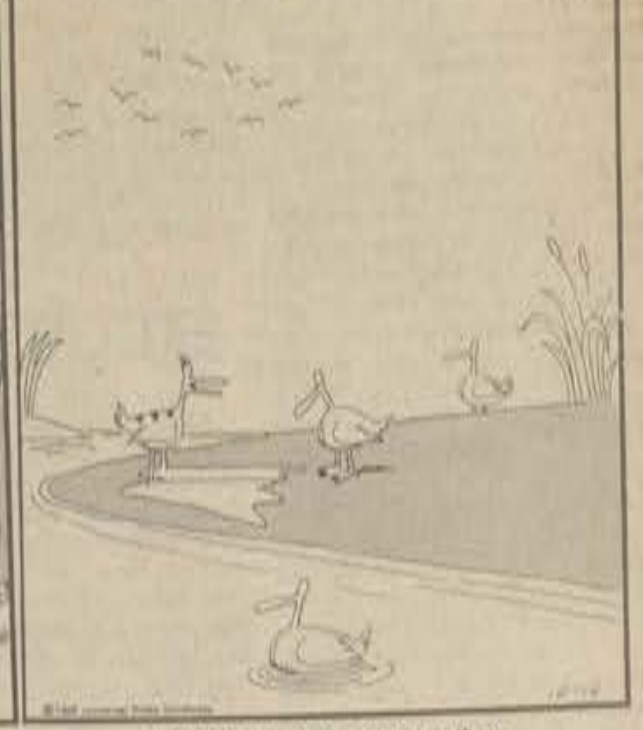


Calvin and Hobbes

Bill Watterson

The Far Side

Gary Larson



"Hey... Since the kids are in bed, what say we run out and kill ourselves a couple of plant-eaters."

"I'm one of those species they describe as 'awkward on land.'"



Animal laughs and their hangouts

Non-union wagon masters

Bloom County

Berke Breathed



In the hallway of the Old Cartoonists' Home

"Well, thank God we all made it out in time. ...Course, now we're equally screwed."

Garfield

Jim Davis



Garfield

Jim Davis

→ Autos for sale

1982 CAMARO 228--Indy pace car, x-fire injector, t-tops, automatic, AC, power brakes, steering, windows and locks. AM-FM cass. BR3 stereo, cruise/tilt. Brand new tires and paint. Car is in mint condition. Must be seen. \$5,300 or best

1982 OLDS CUTLASS BROUGHAM--Small V-8, very clean car. Has power everything. Velour seats, cruise control, tilt, AM-FM stereo. White with burgandy interior. \$3,500 or best offer.

1982 BUICK SKYLARK--121,000 miles. Needs head gasket. Best offer must sell! Call Mike 253-1826.

1980 FIAT IRAVA--2.0 liter engine overhauled recently runs great. Needs new clutch (a cost of \$250). Need to sell car for 250. 254-7953.

CAVALIER 1982--4 door, sharp, clean, new paint (silver), low mileage, AM-FM stereo, air, tilt. \$2,700 - must sell 788-8026.

FOR SALE 1984 HONDA CIVIC DX--Excellent condition. 3500 or assume loan. Call Steve at 254-2762.

1974 VW THING Convertible dependable engine. The ultimate beach car! 2000 or best offer. Call Alison 760-1305.

1979 JEEP--Built for the intense 4WD experience. 750 or best offer. Call 252-5599.

→ Cycles for sale

83-750 cc VT HONDA SHADOW--2000/meg./gavage kept. Only 10,000 miles. Includes 2 helmets. Call 254-8941 after 6pm ask for Lawrence ERAU Box 7700.

→ Roommates

Need two women roommates to share apt. at Riverpoint apts on Beach St. To move in spring semester. Call Jim at 257-3767.

2 FEMALE ROOMMATES NEEDED--To share master bedroom of condo. Bedroom includes two large closets and spacious vanity/bath. Unit has washer/dryer and is partially furnished. Complex is behind Volusia Mall, 1 mile from campus. 200 deposit. Rent is 180/month + 1/3 utilities. Call 253-4084. Must be a nonsmoker.

→ Misc. for sale

REFRIGERATOR--Dom size. Excellent condition. 50. Sure beats warm beer! Call Mary, 767-0064.

PORTABLE STEAM BATH--Great for losing weight, half price \$18, tub safety rail, half price \$8. For bath tub - padlock, copper 130 year old. \$10. Many WWII medal for merit - 1941-45 also Korea. Nonelectric vacuum cleaner \$8. 258-5901.

BASS GUITAR - ARIA PRO II with case--Plays great. I must sell it. Only 200. Contact Danny at box 3481 or 761-8248.

DORM SIZE REFRIGERATOR--Excellent condition, 45. Call Chris 760-0756.

ELECTRONICS FOR SALE--Hitachi cassette player - only 35 and Avstar for 20. Call Bill at 756-8236.

EARLY GRADUATION SALE--Desk 70, dresser 30, loveseat 45, black and white tv 15, twin bed with frame 85, toaster 5. Call Bill at 756-8236.

MICROWAVE OVENS FOR SALE--Littles full size 150, Magic chef full size 75, Sanyo full size 100. Call 259-0861 ask for Turrence or leave message.

AIRCRAFT OXYGEN EQUIPMENT FOR SALE--Twin tanks with holder unused and brand new. Also six seats for Seneca II, new condition, and full canvas cover for same. Call Mo at 252-3085 or ERAU box 1403. Make offer.

FOR SALE:Plane ticket to Dulles Airport (Sterling, VA), round trip during Thanksgiving. Contact Mike Graves, Box 4052.

FOR SALE-HANDYMAN SPECIAL--2 bedroom house. Close to ERAU. Asking \$35,000 (assumable mortgage) Leave message after 4pm 255-6008.

NEW COUCH--Heige floral, \$175 or make offer 252-6390.

TITULE LOCKING HARD RACKS--For gutterless cars. Black, strong, sharp and long. Great for sailboards, surf boards, water and snow skis. What a deal at 50. Call Blake at 255-0007.

AVSTAR--A \$35 donation to the help Blake out of debt fund takes this outstanding flight computer. Call Blake at 255-0007.

BEDROOM SET--Large dresser and nightstand with matching headboard. \$150. Call Mike at 253-1826.

SMALL H&W TV and VHS--Both need work \$50 or best offer. Call Mike at 253-1826.

KERSHNER FLIGHT MANUAL FOR SALE--One student flight manual, one advanced flight manual, one instructor's manual. \$15 each. Contact Kathy 760-3405 or box 8296.

MOVING SALE--Couch and matching loveseat \$200, Ratan papasan chair \$50, Table and chairs \$100, Panasonic stereo \$50, Plants and nest, nick nacks. 253-4084.

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.

FOR SALE--King size medium oak waterbed semi-waveless complete \$275. Wall unit/entertainment center \$50. Smith corona typewriter self correction \$0. 904-253-4084.

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

18" TV AND VCR--Both like new. Call Siggi at 788-9229.

USED SURFBOARD--6' ideal for beginners. Call Siggi at 788-9229.

Dining room table, sturdy imitation butcher block, three chairs \$20. Call Mike 253-1826.

1986-440 JET SKIS, 1987-300 JET SKIS--Excellent condition, well maintained - \$1,200 or best offer. 255-1917 ask for Joe.

FOR SALE--Double bed, like new \$75, large wood tufted desk \$30 or best offer must sell, senior call 238-0963.

240Z--Showroom condition, overhauled engine, new paint, no rust, AC, AM-FM stereo. Only \$1800 call 253-6138.

PERSONALIZED CALLIGRAPHY TO ORDER--Christmas cards, awards, announcements, etc. Call N.R. Chemat after 6pm at 761-1708.

→ Miscellaneous

AUTOMOTIVE ELECTRICAL REPAIR--Starters, alternators, wiring problems. Let me pinpoint the fault before you spend money on the wrong part. Call Dave 788-0343. References available.

Do you need help in math? Experience tutor for algebra, trig, MA111, 112, MA120,220. Cal I, II & III. Also college chemistry. Call 788-7229 leave message.

CALLIGRAPHY--On parchment paper. Provide me with the words to your favorite song or poem and I will print it in calligraphy. Definitely a classy addition to your room. \$15 per page. Contact Kathy at 760-3405.

Private tutoring available for math and sciences. If you are having trouble with Calculus, Trig., Algebra, Chemistry or Physics, my name is Kai Weller. Call me at 257-1196 or send a note to Box 4141.

\$100 REWARD--If you know who knocked over a red white and blue F2 600 (motorcycle) on 10/12 between 9am - 11:30am at the flight line. Info will be kept confidential. Contact Dave at 672-7953 or Box 3115. If it was you--NO reward. However compensation for damages would be appreciated.

→ Personals

Roller Coaster: Thanks for the delay, bud. Next time how about a free first class upgrade? Be careful of those DWR pax... I hear they get irate when Phoenix flights are late.

Hoover, California for the weekend? Are you kidding me? It must be nice being a rich boy with power! Just so you don't get uppity, I want you to know that I took a trip this weekend too - to Deland! News1d

Hoover, Thanks for leaving us all alone this weekend, we were lost without your piercing wit.

David O' Pee Wee! Pee Wee! Pee Wee!

To all the guys named Tim in the world: One of you can stuff it! Signed, Sick and Tired

Mary, Thanks for the dinner and play! How nice of you! Phyllis

David, I hope talking helped you. Wish I could solve your problems, but I'll be glad to listen anytime! Teach

Rich, An enjoyable trip and luncheon was capped off by the knowledge that the customer always comes first! Lucy Mae Lovitt

Staff, Did everyone have a good vacation? It was great here this weekend! The ones who could. J go

To Mike and Brian: Hope you got your fill of manly stuff last Friday night! Long live Red Hots! The girl in the office

Dear Phyl, What is that womanly stuff anyway? You should try that manly stuff sometime. 4 more Red Hots! M & B

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(Continued from page 17)

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M	E	R	I	N	O						
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S	E	R	E	N	E	E	L	E	V	E	N
D	E	B	I	T	R	E	S	T	S		

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Cockpit television lets ground troops see aerial combat

TYNDALL AIR FORCE BASE, Fla. (AP) Air Force maintenance troops are now servicing P-15 Eagle jet fighters with cockpit televisions which let ground forces view and record the mission.

New York National Guard battles into position

ALBANY, N.Y. (AP) New York's National Guard members admit they've had battles to win off the field before they could take their proper place in the nation's defense strategy.

They've had to dispel the image of a group of toy soldiers and weekend flying clubs. Their equipment, as recently as five years ago, was outdated.

Quayle's Wisconsin visit preceeded by criticism of military contract

OSHKOSH, Wis. (AP) Republican vice presidential nominee Dan Quayle criticized an Army contract with Oshkosh Truck Co. nearly a year before George Bush knocked the contract during a televised presidential debate.

Senate approves Kramer nomination as Assistant Army Secretary

DENVER (AP) The nomination of former Republican congressman Ken Kramer to be assistant secretary of the Army for financial management was confirmed by the U.S. Senate Friday.

Sen. William Armstrong, R-Colo., who had endorsed the nomination, said in a handout from his Washington office, "I'm very pleased Ken's nomination came through the Senate unanimously."

Oil prices leap again

NEW YORK (AP) Oil futures prices have leaped again in reaction to speculation that OPEC oil producers would reach an agreement on production cuts at meetings this coming week.

The November contract for West Texas Intermediate, the benchmark grade of U.S. crude, rose 71 cents Friday to settle at \$14.92 a barrel on the New York Mercantile Exchange.

U.S., Soviets build cultural bridges with first joint rock video

CHICAGO (AP) Rock music was once banned in the Soviet Union, but now U.S. and Soviet filmmakers are cooperating a joint rock video.

American killed; caller says Leftist group responsible

TEGUCIGALPA, Honduras (AP) An American who had lived in Honduras for 26 years was killed by an unknown gunman, police said Saturday, and an anonymous caller said a left-wing political group was responsible.

Chrysler chairman tells Chinese to improve quality

BEIJING (AP) Chrysler Corp. Chairman Lee A. Iacocca says he told his Chinese partners they must improve quality in order to enter the international auto market.

"Mostly we talked straight about quality," Iacocca said Saturday of his talks with Beijing Jeep Corp., in which Chrysler owns 31 percent equity.

Burlington, Soviet city begin exchange program

BURLINGTON, Vt. (AP) Officials from Burlington and the Soviet city of Yaroslavl have signed an agreement opening the doors to cultural, educational and other exchanges.

Burlington Mayor Bernard Sanders and Yaroslavl Mayor Alexander Ryabkov signed the agreement on the last day of Ryabkov's five-day visit to Burlington.

Location of Americans in Laos no longer known

WILMINGTON (AP) U.S. officials are no longer sure that two Americans taken prisoner in Laos are being held in Vientiane, the Laotian capital, the sister of one of the two said.

Steger: Soviets, Chinese agree to join trans-antarctic venture

ST. PAUL (AP) The Soviet Union and China have signed agreements with Minnesota explorer Will Steger to join four other countries in a planned 1990 trans-Antarctica dogsled expedition, Steger says.

Attempt to recreate 10,000-year-old voyage scuttled by weather

ATHENS, Greece (AP) Gale force winds on Saturday forced six Greeks paddling a papyrus boat six meters (20 feet) long across the Aegean Sea to abandon their attempt to recreate a 10,000-year-old voyage.

Vatican in the red by nearly \$64 million

VATICAN CITY (AP) The Vatican was in the red by nearly \$64 million last year, its second-largest deficit ever, according to a financial statement issued Saturday by the Holy See.

Church officials who released the document appealed to Roman Catholics to contribute more so that the Vatican could "adequately carry out its pastoral mission."

Senators urge U.N. action on chemical weapons

WASHINGTON (AP) A bipartisan group of nearly 60 senators urged U.N. Secretary General Javier Perez de Cuellar on Thursday to launch an international crusade to prevent the use and spread of outlawed chemical weapons.

U.S. Army Helicopter makes emergency landing in Panama

PANAMA CITY, Panama (AP) A U.S. Army helicopter made an emergency landing in Panamanian territory after hitting a bird near the Panama Canal, officials said Friday. No one was reported injured.

Israeli Gunboats sink three Guerrilla dinghies

TYRE, Lebanon (AP) Two Israeli gunboats backed by a helicopter gunship sank three rubber dinghies carrying Palestinian guerrillas who apparently were trying to reach Israel from south Lebanon, police said Friday.

At least three guerrillas were killed in the clash Thursday off the port of Tyre in south Lebanon, a police spokesman said.

Marines return Super Stallion Copters to service

WASHINGTON (AP) The Marine Corps has returned to operation its fleet of CH-53E Super Stallion helicopters after a one-time inspection prompted by the discovery of a defective nut, officials said Friday.

The heavy-lift transport copters, almost all of which are based inside the United States, were temporarily grounded last Sunday.

U.S. Officials outline Missile Launcher Destruction Plans

FRANKFURT, West Germany (AP) U.S. military officials today outlined their plans for destroying Pershing 2 nuclear missile launchers under the terms of the superpower missile treaty.

Destruction of the first nine launchers starts Oct. 19 at a U.S. Army site in the Hausen section of northwest Frankfurt.

Drug Investigation at Naval Shipyard continues

CHARLESTON, S.C. (AP) A drug investigation at the Charleston Naval Shipyard that led to 26 arrests this week will continue, shipyard spokesman Lee Wallace says.

After four months of undercover work by the Naval Investigative Service, authorities arrested 20 people Wednesday and six people Thursday, including shipyard employees and contract workers.

Records show jet that hit Ramada had history of mechanical problems

INDIANAPOLIS (AP) Maintenance records show mechanical problems grounded an Air Force jet five times before it crashed into the Ramada Inn-Airport last October, killing 10 people.

Pilots were forced on two occasions to kill the single-engine fighter jet's engine in mid-flight because cockpit warning lights and gauges indicated oil-pressure problems, records show.

Report criticizes Fort Bragg's use of military planes

FAYETTEVILLE (AP) Fort Bragg is among installations cited in a federal report that criticizes the military for not properly following Department of Defense policies on use of military rather than commercial aircraft for travel by high-ranking officials.

Post officials say proper procedures are being followed and defend the use of 18th Airborne Corps' fixed-wing aircraft.

Defense contractor beefs up security following leak

SAN DIEGO (AP) Cubic Corp. announced beefed up security measures one month after the Defense Department slapped the defense contractor with a 30-day ban on receiving classified contracts because of a leak of sensitive military data.

About 45 percent of Cubic's total revenues come from defense contracts.

Classified Soviet maps to be made public

MOSCOW (AP) Maps of the Soviet Union that long have been classified for fear they might help spies or saboteurs will be made public next year, a newspaper reported Saturday.

"The 'secret' stamp is being removed" to permit printing of 457 new maps and atlases based on the classified charts, with 249 titles scheduled to be printed in 1989.

Young politicians shed pioneer mystique for "Yuppie" image

TEL AVIV, Israel (AP) With their striped shirts and academic degrees, Israel's new "yuppie" politicians have traded the rough-and-tumble Moshe Dayan style for a more image-conscious approach.

The new generation running in the Nov. 1 elections range in background from sons of leaders to lawyers to Sephardi, immigrants.

Mrs. Mandela visits husband, says he is angered by Botha

JOHANNESBURG, South Africa (AP) Winnie Mandela visited her husband, black nationalist Nelson Mandela, at his tightly guarded hospital room today and said he was angry at suggestions he was cooperating with the government.

U.S. catching up but European cars still most powerful

DETROIT (AP) New U.S.-made cars are packing more power under their hoods, but like bullies on the beach, a handful of European sports cars still can kick sand in their grilles.

BMW, Ferrari, Jaguar and Porsche nameplates long associated with motoring muscle are marketing a half-dozen cars in the 250-320 horsepower range. Top speeds of those cars range from 140 to 157 mph.

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Daytona **255-8431**

*-small admission fee if under 21
 -except free drink nights