

2-1-1989

Avion 1989-02-01

Embry-Riddle Aeronautical University

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DAYTONA RACING SEASON STARTS SATURDAY

AVION

An Award-Winning College Newspaper

Volume 61, Issue 3

Embry-Riddle Aeronautical University, Daytona Beach, Florida

February 1, 1989

Aeronautica



Sir Thomas Octave Murdoch Sopwith, aviation pioneer, died of natural causes last Friday, Jan. 20.

Page 4

Clubs



Clubs and Organizations Day, sponsored by Student Activities, was a great success.

Page 14

Diversions



The Def Leppard Cosmic Laser Light Show comes to the Museum of Arts and Sciences Planetarium.

Page 10

Space Technology



Workers test components of SS Freedom at the new NASA Power Systems Facility.

Page 9

Sports



The 24-Hours at Daytona is this weekend starting off a month-long schedule of racing.

Page 7

Trivia: Thursday morning the fate of the 1989 winter will be decided by a small wooly rodent. Thursday is ground hog day.

Opportunities abundant at Career Day

by Phyllis Salmon
Copy Editor

"I have never seen so many suits on campus as today!" was the most frequently heard comment on campus last Friday. Career Day '89 provided an opportunity for representatives from 25 companies to talk to our students about their businesses and career opportunities in their industry.

All facets of the aviation community were represented including major airlines, aircraft manufacturers, FBOs, government agencies and contractors. Companies participating included Martin Marietta, Boeing, General Dynamics, the FBI, Alaska Airlines, and the FAA, to name a few.

Career Day '89 was held in the U.C. in the room that once housed the bookstore. The room was often crowded, sometimes to the extent of being uncomfortable. "They were swamped!" said one graduating senior, "I think they should have given seniors preferential treatment."

The event was well publicized among all students on campus with everyone being encouraged to take advantage of the opportunity no matter when graduation is expected.

"I found Career Day to be a good chance to practice talking to someone in a professional manner, but there were very few companies there ready to hire people," said Mark Green, a senior AMT major. "It was

really just a dress rehearsal." The same feeling was expressed by Jim Lottio, an AE senior. "I was bothered by how few companies were ready to hire. Some of them seemed more interested in setting up a co-op program with Riddle." Both Green and Lottio agree however that Career Day is a positive step for Embry-Riddle in its relations with the aviation community.

"I think the representatives were very curious about Embry-Riddle students and were looking at the reflection we made on the University," said Lottio. "I believe, for instance, that they were very impressed by the number of engineers who turned out." On the other hand, Green claimed, "The representatives in some cases seemed overworked, like they were just doing a job, and not there to help."

Many of the companies at Career Day '89 were represented by ERAU alumni. This is an occurrence that is being encouraged by the Alumni Relations Office and the Student Alumni Association who frequently sponsor alumni events to help "bridge the gap" between students and alumni.

The consensus of Embry-Riddle students is that Career Day "should definitely be done again. It's a great way for the companies to present themselves to ERAU and for the students to impress the representa-

Job hunting...

The Career Center's annual jobfest was a roaring success. This year's fair featured over 25 companies ranging from Boeing one of aviation's giants, to F. N. Wolf & Co. a Wall Street brokerage house.



Chief of Staff speaks in Orlando

by David A. O'Donnell
Editor in Chief

Air Force ROTC cadets from Embry-Riddle and other area colleges were given a very unique opportunity last week. The Air Force's top man was in Orlando to speak at the annual gathering of the Air Force Association's Symposium.

General Larry D. Welch, the Air Force Chief of Staff, was the keynote speaker at the gathering of Air Force Dignitaries, Air Force Association members, and heavy-weight defense contractors.

General Welch, a four star general, was only one of the Air Forces top management featured on the agenda. Along with General Welch; the commander of Pacific Air Force (PACAF), four star general, General Merrill McPeak; Chief of the Air Force Reserve, Major General Roger P. Scheer and finally Deputy Chief of Staff for Plans and Operations, Lt. General Michael Dugan. Each gave a short speech on his area of operation and a general overview of the Tactical situation in that area. Each speech was followed up by a short question and answer session as each speaker fielded questions from the audience.

General Robert Russ, Commander of Tactical Air Command, General Bernard P. Randolph, Commander of the Air Force Systems Command, Lt. General James

P. McCarthy, Deputy Chief of Staff for Programs and Resources, Army Lt. General Edwin Leland, Jr., Chief of Staff of European Command, and Brigadier General Philip Killey, Director of the Air National Guard rounded out the agenda on the second morning.

Another equally as intriguing portion of the two day event was provided by several defense contractors. The event was highlighted by an exhibit hall full of displays

put on by various defense contractors, peddling their wares. Some of the booths offered models, mock ups and various displays of the industries newest hardware. One booth even featured an advanced technology simulator that allows two pilots to fly simulators in unison and track and engage multiple targets while the an additional screen tracks the entire engagement in a very realistic scenario. The

see CHIEF, page 8



Chief speaks...

Air Force Chief of Staff General Larry Welch spoke to a large gathering of Air Force advocates and Defense contractors at the annual Air Force Association's National Symposium held this past week in Orlando.

LaCrosse team triumphs

by Frank Moxley

The Embry-Riddle LaCrosse Team played its first game of the semester and second of the season on Jan. 21. Despite a spirited effort, the team lost 19-9 to Jacksonville.

Jacksonville scored five unanswered goals very early on and repeated this in the first few minutes of the second half. Throughout the rest of the game, though, ERAU made it a close-fought battle.

The third game against Ocala was cancelled due to the territorial downpour on Superbowl Sunday. Earlier in the day, Ocala would not postpone the game but was finally called when the field was declared open for water sports.

Riddle finally met Ocala last Saturday, Jan. 28. The Eagles played well and made use of both its new and experienced players. Johnny Kirk scored six goals to lead Embry-Riddle to a 14-5 victory over Ocala. Jim

Powell and Chris Watson each added a pair of goals in the winning effort. Defenseman Darren Page also contributed to the score.

Game four was with Orlando on Sunday, Feb. 29. Playing under great weather conditions and to a sizeable turn out of spectators, Embry-Riddle had an extremely good first half. They held the top team in the State to 5-3 and scoreless in the second period.

However, the second half was a different story. Orlando dominated the second half and crushed the Eagles into a 17-4 defeat.

The play was extremely aggressive, with two major injuries. Joe Hesano of ERAU got a bad cut in his upper lip and needed eight stitches. One Orlando attack man had his hand shattered and was to undergo emergency surgery Sunday night. Embry-Riddle goals were scored by John Kirk, Jim Powell, Detrick Heatley and

see LACROSSE, page 8

see WOMEN, page 8

Greg's Gibe

Will the return have fireworks

by Greg Mullin
Satirist

The New Testament teaches Christians that their savior Jesus Christ was crucified some 2000 years ago for the good of humanity. The New Testament also promises its readers that the savior will engage in a second coming and assert that it is the obligation of all that believe to await that sacred day. Yet, even though the second coming holds such an intricate place in that faith, it doesn't appear that the arrival of Christianity's "number one" figure is very welcome.

An example: While the Pope was celebrating Mass last week "a man" rose from the masses and, with staunch affirmation, loudly identified himself as "the Son of

God." Arousing very little emotion, probably due to the mediocrity of his presentation, the man was dragged out doors by his hair.

The paradox: For a population of zealots so anxiously awaiting the second coming of their savior, such an individual should be revered.

With no evidence of Jesus Christ's appearance, aside from the vague distorted descriptions that have trickled down through 2000 years, Christians seem to pass aside the possibility that the savior may very well appear as a common man. After all, there doesn't seem to be a passage among the theological literature that limits the method of arrival of the savior.

Fact is, self proclaimed profits fit the popular image of Jesus Christ,

claims of holiness will suffer severe criticism from society. No questions are asked, the potential deity is stigmatized as a heretic, and the devout continue with their wait.

With such apprehensions, what kind of arrival have Christians come to expect? Is the savior expected to appear with an explosive festival of pomp and circumstance? Will there be a canvas of fireworks and erupting thunder from a multitude of trumpets? Will we hear voices singing excerpts from Handel's Messiah by a choir of seraphim?

We have become such a commercial society that unless the savior has an appreciation for "flare and glitter" he runs a slim chance of making his promise of 2000 years a convincing affair.

Thank you

The Career Center staff would like to thank Embry-Riddle students for making Career Day 1989 a great success!

Twenty-six companies sent representatives to Career Day. That's more than we had last year. Some of the companies had not recruited at Embry-Riddle before, and each was impressed with the professionalism you demonstrated.

All representatives were very enthusiastic about the number, quality, and appearance of the students they saw. They were impressed with the technical skills, friendliness, and assertiveness of Embry-Riddle students. They all want to come back.

Thank you to all the students who participated. You represented Embry-Riddle well and made a great Career Day.

The Career Center Staff

Career Navigator

ASK will provide answers

What should I do when I'm done with school? What can I do when I'm done with school? Who would hear me? What kinds of jobs are there? How can I prepare myself for those jobs? What are employers looking for?

To help students get answers to these and other career related questions, the Career Center has begun the Alumni Sharing Program (ASK). This is a new program where graduates from Embry-Riddle volunteer to talk to current students about their careers. These alumni do not have jobs to offer, they have information, suggestions, and encouragement. They are a great source of information for current students. Who better knows what you can do with a degree from Embry-Riddle than people who have that degree?

There are about 50 alumni volunteers in the ASK program. They work in a variety of jobs with many employers. Some of the positions are: Vice President, Aviation Marketing; Supervisor, Market Planning and Development; President; Airline Captain; Airline First Officer; Free-Lance Pilot; Underwriter; Air Traffic Controller; Airport Assistant Manager; Programmer Analyst; Aviation Financial Consultant; Buyer; Line Maintenance Mechanic; Customs Pilot; Marketing Engineer.

Some of the employers these alumni work for are: American Airlines; U.S. Air Force; Southeastern Aviation Underwriters; Northrop Corp.; Piedmont/USAir; Boeing Helicopters; Delta Airlines; United Airlines; U.S. Customs; Lockheed Georgia; Morton Thiokol; Naval Intelligence Support Center; NASA Goddard Space Flight Center; and the Federal Aviation Administration.

To contact these graduates, look in the ASK folder in the Career Center. Select the people you would like to contact, and see a counselor to get their name and how they can be contacted. You will also be given some suggestions on how to make the contact, what questions to ask, and so on.

The alumni are anxious to talk with students. (They call and ask why no one has called yet.) So this is your chance to find out from successful Riddle grads what you can do to make your Riddle education result in success!



Locked up...

Another victim of the infamous Embry-Riddle tire eater. The notorious creature was captured trying to get a good grip on this tire in a rare daylight appearance.

Winston

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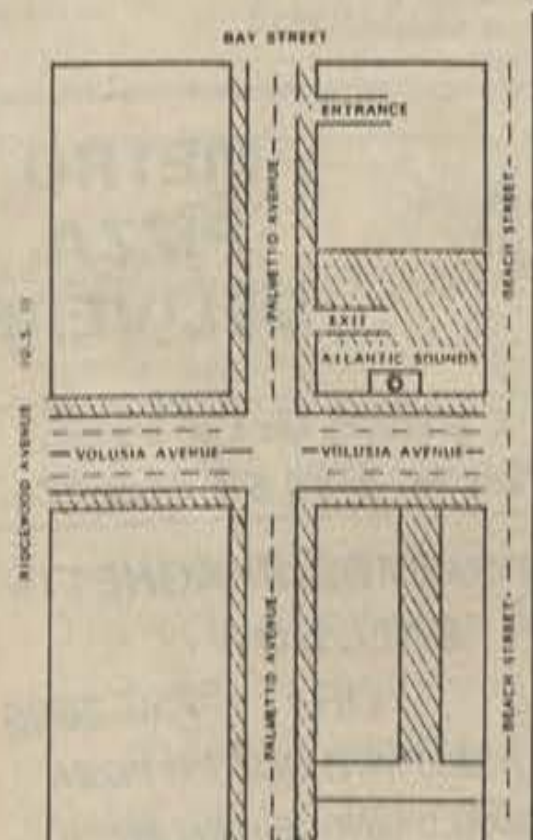
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Board of Trustee member elected Senior VP of AOPA

ERAU Press Release

Dr. Webster B. (Dan) Todd, senior vice president of the Aircraft Owners and Pilots Association's (AOPA) communications division, has been a member of Embry-Riddle Board of Trustees for ten years. Todd is Chairman of the Nominating and Safety Committees. He also serves on the Executive Committee and is a member of the Corporate Task Force of the Capital Campaign.

As senior vice president of AOPA, he is directly responsible for the coordination of the three substantive operating areas: strategic affairs, media relations and membership outreach.

Todd's career has been a life-long involvement in every facet of aviation and politics. Immediately prior to assuming his present responsibilities, Todd served as Senior Vice President of AOPA's government and technical affairs division which is directly responsible for the coordination of political, legislative and technical aviation initiatives at the national, state and local levels.

His political career began as a member of the New Jersey General Assembly. While residing in New Jersey and serving the citizens of his district, he also was owner and

operator of the Princeton Airport as well as president of Princeton Aviation Corporation, Princeton Airways, and Jetco.

Todd's political background and aviation experience led him to serve as special assistant to the chairman, Civil Aeronautics Board. He then moved to the position of Assistant Secretary, Department of State, as Inspector General/Foreign Assistance. He also served two terms on the White House staff.

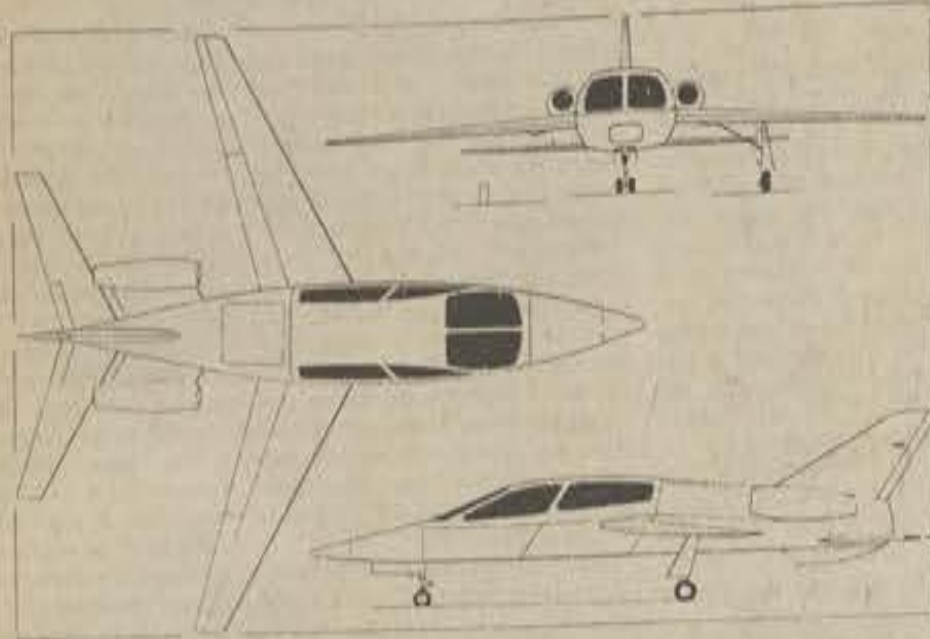
On his return to aviation, Todd became chairman of the National Transportation Safety Board. The Airline Pilots Association International later recruited him as director, engineering and air safety.

Todd's managerial business and aviation history enabled him to step in as president and CEO for ITRA Airlines (Frontier Commuter) and as vice president, Public Affairs for

Frontier Airlines. In 1976, Todd received an Honorary Doctorate Degree in Aeronautical Science from Embry-Riddle. A frequent face at the University's Prescott and Daytona flight lines, Todd has logged 6,000-plus hours in more than 120 different types of aircraft. He is a CFII/MEI and a certified airframe and powerplant mechanic.



Aero Identification



The exact answer drawn of the identity of this aircraft will win a free submarine sandwich of their choice from *Sorrento's Deli*. The student publication staffs, previous winners, and their families are not eligible.

Last week's Aero ID was incorrectly identified as the *Avanti* so we will try it again this week. Good Luck!

Name _____

ERAU Box No. _____

I.D. Entry _____

Return to Avion to enter

Aviation pioneer passes away

LONDON (AP) — Aviation pioneer Sir Thomas Sopwith, who gave Britain its finest fighter planes in three wars and designed the aircraft that brought down Germany's legendary "Red Baron" in World War I, died last Friday, Jan. 20. He was 101.

"The genius of flight is dead," said a headline in the Evening Standard newspaper of London.

"Tommy" Sopwith died in his sleep in his mansion near Winchester in southern England. "Really he died of old age, but he's had a marvelous innings (life)," said his son, Thomas.

Thomas Octave Murdoch Sopwith was born Jan. 18, 1888, into a wealthy engineering family. He was the first son after seven daughters.

He was an accomplished race car driver, yachtsman and balloonist when he taught himself to fly in 1910. The Wright brothers had made the first powered flight in 1903 in the United States.

After walking away from several crashes, Sopwith was given the 31st

aviator's license issued in Britain.

"We had a lot of crashes in those days, but, bless you, it was fun," he recalled on his 100th birthday.

He was soon breaking flying records in Britain and the United States and was the first pilot to drop mail onto a ship's deck when he delivered a parcel to the liner Olympic as it steamed out of New York harbor.

Sopwith used money from American flying prizes to set up the Sopwith Aviation Co. in 1912, producing the Sopwith Pup, Snipe and Camel planes.

The Sopwith Camel single-seat fighter shot down 1,294 enemy planes in World War I, the most kills for any aircraft in that war. Germany's legendary "Red Baron," Manfred von Richthofen, was shot down by British pilot Roy Brown in a Camel.

After the war, Sopwith founded the Hawker Siddeley company, along with his Australian mechanic and test pilot Harry Hawker and friend Fred Sigrist. The company made him a millionaire by the

1930s.

He built and sailed the racing yachts Endeavour and Endeavour II in unsuccessful bids for the America's Cup in 1934 and 1937.

When the Air Ministry couldn't make up its mind in 1936 about a new breed of fighters, Sopwith ordered his factories to build 1,000 of the rugged monoplane eight-gun Hurricanes designed by Sydney Camm.

The Air Ministry bought them and the Hurricane formed the air force backbone in the 1940 Battle of Britain. In that battle, it destroyed more enemy planes than all the rest of the air and ground defenses combined, including the faster Spitfire.

Sopwith was knighted in 1953.

In the 1960s, Sopwith's team developed the Harrier vertical takeoff fighter, which Britain used against the Argentine air force in the 1982 Falklands war. The Harrier is one of the U.S. Marine Corps' favored aircraft.

see PIONEER, page 8

IAOPA celebrates silver

FREDERICK, MD.—The International Council Of Aircraft Owner and Pilot Associations (IAOPA) has kicked off its 25th anniversary year with a newly elected president, a record number of nation members, and new initiatives for promoting general aviation worldwide.

John L. Baker, President of the Aircraft Owners and Pilots Association-United States of America, has been elected president of IAOPA, and AOPA-USA Vice president Steven J. Brown has been appointed IAOPA Secretary General.

"Aviation is increasingly in the worldwide spotlight, and we look forward to the challenges ahead," said IAOPA President Baker. "I consider it a real opportunity to lead IAOPA during a period of record growth."

IAOPA currently has 29 member nations representing 330,000 pilots around the world—a 25-year high for IAOPA. Turkey was the most recent member nation to join. IAOPA, a federation of autonomous, non-governmental, national general aviation organizations, works with other international and national organizations to promote the benefits of general aviation. The International Civil Aviation Organization (ICAO) selected IAOPA in 1964 to represent international general aviation, ensuring that the worldwide needs of business and personal transportation are considered

during the establishment of international standards. IAOPA objectives include increasing the utility of general aviation aircraft as a means of business and personal transportation, as well as improved facilitation of the movement of general aviation aircraft internationally.

The 25-year-old IAOPA functions as a federation to integrate the views and policies of member organizations on international standards, recommended practices, procedures, facilities and services for international general aviation. The organization strives to develop and promote desirable and practical standardization for the growth of general aviation.

"As one of our first initiatives, we have established a Pacific Regional Office, which is co-located with AOPA-Australia," said Baker. "Due to the increasing growth and importance of Pacific Rim nations, we felt an added presence in the region was essential. In addition, we will be convening the First IAOPA South-east Asian Regional Conference this February, which will be hosted by AOPA-Philippines in Manila."

Baker noted that IAOPA has had 73 regional policy meetings in Europe. These meetings are held quarterly in Amsterdam. IAOPA's European Regional Office is

see IAOPA, page 8

Scholarships helps aspiring aviators

EAA AVIATION CENTER, OSHKOSH, WI.—In 1988, more than \$100,000 in scholarships was awarded through the EAA Aviation Foundation to young aviation enthusiasts interested in aviation-related academic and technical studies. This year, the Foundation will again administer an extensive scholarship program to help encourage aviation studies—and careers—among the nation's youth.

"In order to perpetuate our rich aviation heritage, we need to find ways to involve today's young people," said Foundation President Tom Poberezny. "Scholarships administered by the EAA Aviation Foundation not only accomplish this ambitious goal, but also provide fulfilling career opportunities in many professional

aviation fields.

"Since 1971, the Foundation's Scholarship program has helped more than 90 students initiate or continue an aviation career. EAA Aviation Foundation Education Director Chuck Larsen said these scholarships have included grants for aspiring pilots, mechanics and a growing number of other professional fields.

"The goal of the EAA Aviation Foundation Scholarship Program is to encourage, recognize and support excellence in students pursuing knowledge of the technologies and the skills of aviation," Larsen explained. "Annual scholarships have provided assistance to deserving individuals who demonstrate a financial need in order to accomplish

their aviation-related goals. These scholarships, which range from modest grants to awards for full four-year degree programs, can set a student on the path to becoming a pilot, powerplant technician, mechanic, administrator or engineer.

"Larsen said the scholarship program is open to all young people interested in aviation careers. Applicants should be "well rounded individuals involved in school and community activities as well as aviation," according to Larsen, "and should have established an academic record that will show an ability to successfully complete the activity for which they are requesting the scholarship."

"Applications for the EAA Aviation

see EAA, page 8

WANTED:

Willing and dedicated individuals to write aviation oriented articles for AERONAUTICA



GO FOR IT!

REMEMBER ORIENTATION?

I certainly do since I went through it four times here at Embry-Riddle. How? Well I'm one of the Orientation leaders that helped you when you first arrived at this University. And why did I decide to become part of the "O" Team? My reasons were simple: I wanted to become more relaxed when I was around people, I wanted self-confidence, and at the same time I wanted to help out. I've accomplished all my goals and more!

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Notices

Fall '89 housing

If you want University-Managed Housing for Fall 1989 and Spring 1990, you can obtain a new contract in Room 278 of Dorm II from Feb 1-10. If interested, complete the contract, pay the \$150 prepayment and have the cashier validate your contract, then submit it to the Housing Office. Any contracts submitted after Feb 10 will be placed on a secondary waiting list. All contracts from continuing students will be randomly selected for the available spaces.

The Housing fees for the Fall 89/Spring 90 terms are as follows:

Residence Hall I (Dorm 1)	\$820.00
Residence Hall II (Dorm 2)	\$820.00
Apartment Complex I (AC 1)	\$770.00
Apartment Complex II (AC 2)	\$820.00

There are still some spaces available for the Spring 89 term. If you want housing or know someone who does, get a contract in the Housing Office located in Room 278 of Residence Hall II.

Library hours for Spring '89

Mon - Thurs	7:15 a.m. - 10 p.m.
Fri	7:15 a.m. - 6 p.m.
Sat	9:00 a.m. - 6 p.m.
Sun	1:00 p.m. - 10 p.m.

Computer lab hours

Mon - Thurs	6:00 a.m. - 12:00 p.m.
Fri	6:00 a.m. - 6:00 p.m.
Sat	9:00 a.m. - 7:00 p.m.
Sun	2:00 p.m. - 12:00 a.m.

Avion needs news and sports writers

The Avion is looking for news and sports writers. The Campus News section covers news stories that affect the Embry-Riddle Campus. Sports coverage may include campus varsity or intramural sports as well as national sports of interest to our students. If you have some free time, and would like to do some work for us contact Martin at ext. 6049 or stop by the Avion office on the second floor of the U.C. above the cafeteria.

Cooperative education deadline

If you are interested in co-oping for the Summer of 1989 you must be admitted to Co-op by Apr 1. Applications for summer positions must be in the Career Center by Feb 10 to get in on the first mailing to employees and Mar 15 to get in on the second mailing.

Aeronautical studies students

All Aeronautical Studies students who have not declared an Area of Concentration must do so prior to Feb 28. To declare an Area of Concentration, see the Program Chairman in the GRW Complex, G-Building, Room 107.

Poetry contest

Students talented in poetry can enter a contest that has \$11,000 in prizes available. A Grand Prize of \$1,000 and First Prize of \$500 plus many other cash awards will be given by the American Poetry Association.

"Students are often winners in our contests, and we would like to see more students' poetry," said Robert Nelson, Publisher for the Association. "We want to find undiscovered poets and give them the recognition they deserve. This year our winners will be published and publicized to the utmost of our power."

Poets may enter the contest by sending up to six poems, each no more than 20 lines, name and address on each page, to:

American Poetry Association
Dept. CT-22
250 A Potrero Street
P.O. Box 1803
Santa Cruz, Ca 95061-1803

Each poem is also considered for publication in the American Poetry Anthology, a leading collection of contemporary verse. The contest is open until Jun 30.

Income tax help

Many students on campus will be filling out 1989 tax returns. If you feel that you need help in preparing your 1989 tax return, go to A building, room A-117 any Tuesday night between 5:30 p.m. to 8:30 p.m. until April 15. It's a free service provided by VITA (Volunteer Income Tax Assistance).

Bicycle registration

Registration for bicycles will be held on Thurs, Feb 2 from 10:00 a.m. to 2:00 p.m. in the west side of the U.C. Lock it or lose it!

Orientation leader applications

The Counseling Center will be interviewing students for 24 Orientation Leader positions. Please stop by the Counseling Center by Fri, Feb 17 for applications.

Florida financial aid recipients

All students who are seeking a four-year degree and are receiving Florida Financial aid are required to take the CLAST exam in the semester in which they will earn their 60th credit hour. Students who will reach their 60th credit by the end of the Spring 1989 semester must take the CLAST exam on Sat., Mar 11, 1989.

Students must advance register at the Office of Institutional Research, Room 134, Spruance Hall. The registration deadline is Fri, Feb 10. Any questions regarding CLAST eligibility or registration may be directed to the Office of Institutional Research, ext 6225.

Passion Panel

Relationship counselors, medical professionals and students will address questions regarding sexuality, dating, physiological concerns, love, communication and related issues. Everyone is welcome. Tuesday, Feb 7 at 8:00 p.m. in the Dorm Lobby.

Coaches Corner

Listen to "Coaches Corner" with ERAU head baseball coach John Filor, today at 3:45 p.m. on WROD. "Coaches Corner" will be presented daily on WROD through April 7.

MA/PS seminar series

- Feb 9 Dr. William Jafferis
Rocket Triggered Lightning
- Feb 23 Dr. Elliott Jacobs
Becoming a TEXPert: Use of TEX software
- Mar 9 Dr. Zoubir Benzaid
Control Theory of Differential Equations
- Mar 30 Dr. Selwyn Hollis
Problems in Reaction Diffusion Systems
- Apr 13 Dr. L. Narayanaswami
Solid Propellant Rocket Research

All seminars are presently scheduled at the Riddle Theater at 1:30 p.m. in A Building. Students are welcome.

April Graduates

The first meeting for April Graduates will be held in the U.C. on Tuesday, Feb. 7, at 8:00 pm. This is also for those participating in the ceremony who will complete all academic and flight requirements by August. Elections for Senior Class President and Vice President will be held. Important Graduation information will be reviewed.

If you are unable to attend, please contact the Student Activities office.

SAA brings alumni and students together

by Phyllis A. Salmons
Copy Editor

Before long you too will be an alumnus of Embry-Riddle Aeronautical University. Hard work and experience will shape your career, building on the solid foundation you built in your college days. You will look back to your graduation and think, "If only I had known then what I know now!" Maybe you will even want to come back and tell students what you have learned out there in "the real world".

There is an organization on campus, the Student Alumni Association (SAA), helping alumni do just that. The SAA helps to direct and assist the goals of the Embry-Riddle Alumni Association by introducing students to the Alumni Association before they graduate.

One of the projects of the SAA has been the sponsoring of alumni speakers who share valuable information with current students. The number of such speakers has been larger this past year than ever before.

...through its projects the SAA introduces the students to the Alumni Association and helps give the entire alumni program a positive image.

The Student Alumni Association, organized in 1987, was formed to involve students with a variety of services to the University. Commitment to encourage and promote relations between alumni and undergraduates is evident. The objective of the SAA is the most clearly depicted in its motto, "Students helping students, past, present, and future."

The major objectives of the Student Alumni Association are 1) providing a positive introduction of students to the Alumni Association and Alumni Relations Office, 2) encouraging a strong sense of loyalty to the University, and 3) instilling a desire for continued association with the University.

It is through its projects that the SAA introduces the students to the Alumni Association and helps give the entire alumni program a positive image. Alumni Representatives and students energetically work together for the benefit of the University.

Alumni Relations is the link between students and alumni and helps pave the way for the transition from student to alumnus. Remember, you are students for a limited amount of time, but you are an alumni for the rest of your life.

Membership in the Student Alumni Association is open to any interested Embry-Riddle student who has attended at least three consecutive meetings and will actively participate on committees which organize the events. Meetings are held once a week in Spruance Hall. For further information, call extension 6160.

The Solution

(continued from page 10)

ROILS PHIAL
GERMAN LATTER
UP PRAYERS GO
EEL DREAD SAP
SNAG END ETTE
STRAND SCREED
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Sunbank signals season

by Mike Lionarons
Sports Editor

This weekend marks the start of Speed Weeks '89 with the 27th Annual Sunbank 24 at Daytona.

The international field of more than 65 high-powered sport cars will take the green flag at 3:30 p.m. on Saturday and traverse the 3.56 mile Daytona road circuit for two trips 'round the clock.

Practice and qualifying begin on Thursday. The race's only night practice will also be on Thursday from 6 to 8 p.m.

Practice continues on Friday and the final qualifying sessions for the Camel GT Prototypes and production-based GTO and GTU cars will also be held.

On Saturday, the drivers will have half an hour

to warm up practice before starting the pace lap at 3:25 p.m. The race will then continue until 3:25 p.m. the following day.

An unprecedented manufacturer's struggle is expected among the leading GT Prototype field, with defending champions Jaguar receiving stiff opposition from Porsche, Nissan and Toyota.

In the Camel Lights category for smaller GT Prototypes, an intense battle among engine suppliers should rage, with Buick, Pontiac, Chevrolet, Mazda, Porsche and Ferrari all participating.

The production-based GT categories will also draw attention as Roush Racing and Team Highball each attempt to win their fifth straight class championship in GTO and GTU respectively. Roush will re-introduce the Mercury Cougar to racing at this year's Sunbank 24.

As usual, the race should draw a cosmopolitan field - in 1988, 16 drivers representing 10 different countries finished in the top 10 positions. Italian Mauro Baldi, driving the BF Goodrich Porsche, set the event qualifying record of 129.563 mph in 1988.

Last year's winning team, Castrol Jaguar, consisted of Raul Boesel (Brazil), Martin Brundle (England) and John Nielsen (Denmark.) Though the team also went on to win the 1988 Le Mans, they return to Daytona confident yet a little apprehensive.

There is much uncertainty brought on by a 24-hour race - who knows what gremlins may arise in the course of a twice-round-the-clock marathon.



Back hand...

Embry-Riddle tennis team struggled through their season opener. They managed to win a few of the doubles matches but were unsuccessful in all their singles matches.

Tennis team opens season

by Monish Paul

Embry-Riddle's Tennis Team finally got over the net last Sunday afternoon. Unfortunately, the young team was unable to make much headway against the experienced Florida Institute of Technology.

With the exception of doubles combination Mark Brzniak and Duncan Parsons (7-6, 6-3), the ERAU Team went down in defeat in both singles and doubles.

In the singles, ERAU's no. 1 ranked Parsons fought hard but could not match the power of his opponent (6-1, 6-4). Team-mates Brzeziak and Selwyn Shand lost by a narrower margin of 6-4, 6-4 each. Losing the first three games, Shand rocked his opponents confidence with a devastating serve. He came back very strongly and in the end it was a struggle for points.

Bert Cool was simply overwhelmed under the blazing sun. Despite a spirited volley effort, he lost 6-0, 6-0. Joao Machado and Dana Bowditch also fell victim to the powerful FIT Panthers, 6-1, 6-2 and 6-0, 6-1 respectively.

The doubles series generally fared better than the singles effort. Machado and Bowditch made a good team effort, pushing the FIT pair to the full three sets, 7-5, 3-6, 3-6.

The third pair of Shand and Cool was defeated in straight

sets, 6-2, 6-3, despite some skillful tennis.

Coach Knabe, one of the "founding fathers" of the fledgling team, was generally pleased with his players. Perhaps the only criticism of Sunday's team may be their lack of cohesion. Whereas the FIT players gathered at each other's matches once they themselves had finished, the ERAU team seemed to disappear.

Coach Rudy Knabe, however, stresses that team spirit is not something which suddenly appears or must be forced upon the players. The players have been only loosely associated for the past few months and team spirit is something which only develops with maturity.

Perhaps team unity would grow more rapidly with larger public awareness of the team and more supporters than the meager handful which turned out.

Overall, the Riddle team showed some very good potential. Being their first varsity game, only three of the players were on high-school teams; the team lacked experience and confidence. The competition, however, gets no easier. Upcoming matches include those against the NAACP's nationally ranked no. 2 and 3 teams.

All home matches are played at Indigo Lakes Tennis Club located on the North-East corner of Volusia Avenue (close to I-95.)

Daytona 500 revving up

by Mike Lionarons
Sports Editor

February is motor sport month in Daytona. The 27th Annual Sunbank 24, the \$318,000 season opener for the International Motor Sports Association's Camel GT Series, takes place at Daytona International Speedway on Feb. 4-5.

The stock car portion of Speed Weeks '89 begins on Tuesday, Feb. 6 and culminates in the \$1.7 million Daytona 500 on Sunday, Feb. 19. This year's events will distribute more than \$3 million among a multinational field, including Italian Mauro Baldi (Gebhart/Momo Porsche 962) and Englishman Andy Wallace (Castrol Jaguar XJR-9).

The first major race following the Sunbank 24 will be the Busch Clash of '89 (Feb. 12.) This will feature the 13 Busch Pole Award Winners of the 1988 NASCAR Winston Cup season and a Wild Card Drawing winner.

The 26th Annual Daytona ARCA 200, 80 laps of the 2.5 mile trioval, is set for the same day.

Both the 11th Annual Florida 200 Charlotte/Daytona Dash Series and the opening round of the Budweiser IROC XIII will run on Feb. 17.

The 120 lap, 31st Annual Goody's 300 NASCAR Busch Grand National Series race is scheduled for Saturday, Feb. 18.

Finally, the main event, the 31st Annual Daytona 500 NASCAR/FIA Winston Cup Series race will be held on Sunday, Feb. 19. Reserved seats are already sold out but plenty of unreserved seats will be available on race morning.

Remember, there will be lots of action outside of race time, too. Eleven practice and qualifying days are planned, all of which will be admissible for free or a small fee.

The Speedway Ticket Office is open 9 a.m. to 5 p.m., Monday through Friday, and from 10 a.m. to 4 p.m. on weekends prior to major racing events. Telephone 904-253-6711.

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LA CROSSE

(continued from page 1)

Don Tilden, John Kirk also had two assists and goalie Brian Macarthy had five saves.

The Florida State University Seminoles will be hosted by the Embry-Riddle LaCrosse team on Saturday, Feb. 3 and again on Sunday, Feb. 4. The game on Saturday begins at 2:00 p.m. and the one on Sunday starts at 11:00 a.m.

Games are played behind the University Center and students are encouraged to come out and support their lacrosse team.

PIONEER

(continued from page 4)

Sopwith said the Harrier's high technology made it the favorite of all his planes.

"He was one of the greatest figures in aviation history. He made a major contribution to classic aircraft design in the defense of freedom in two world wars," said Sir Roland Smith, chairman of British Aerospace PLC.

Sopwith retired as Hawker Siddeley chairman in 1963 but remained a director until age 90.

Sopwith was over 6 feet tall and smoked heavily until he was 92. He outlived both his wives and was survived by his only son, Thomas, a former race car driver. He had planned to move in with his 56-year-old son, and his 2,200-acre Compton Manor sporting estate is for sale for a reputed \$24 million.

Sopwith was blind by his 100th birthday when a procession of his planes, from the Camel to the Harrier, flew over his home in tribute.

A private funeral will be held Feb. 3. A memorial service will be held later.

IAOPA

(continued from page 4)

cated in London. Prior to the March regional meeting, Baker will be in Europe meeting with government leaders, international organizations and the news media concerning general aviation.

Baker, who took office as IAOPA President January 1, 1989, brings a wealth of experience to the position. The United States' premiere spokesman for general aviation, Baker has led IAOPA for more than 11 years, a time of enormous growth for the association. An attorney, Baker has served as Assistant Administrator of the Federal Aviation Administration, trial attorney for the Department of Justice, an assistant to a Senator, and minority counsel for a subcommittee of the Senate Judiciary Committee.

Baker is a decorated former Air Force fighter pilot who currently

flies about 400 hours annually. Baker has logged more than 11,000 hours and holds a commercial license with single-, multi-engine land, seaplane and instrument ratings.

Baker was an executive with the Air Line Pilots Association and with Grumman Aircraft Corporation, and has received numerous awards for his achievements in aviation, including being named Aviation Man of the Year in 1983.

Baker has traveled extensively, and has given major speeches in Europe, Asia and the Pacific. While at ALPA, he was involved with the International Federation of Air Line Pilot Associations, and during his military service Baker trained European and Asian national pilots in a specialized U.S. Air Force flight training program.

As Secretary General, Steven J. Brown brings ten years of aviation-

related technical and policy experience to IAOPA. An active civil aviation instructor and former air taxi pilot, Brown has logged 3,000 hours and holds a commercial license with single-, multi-engine land and sea privileges as well as instrument and glider ratings. Brown has piloted general aviation aircraft internationally and has been IAOPA's representative to numerous ICAO panels and committees.

In addition to appointing Brown, IAOPA President Baker has appointed John S. Yodice as IAOPA General Counsel and Linda K. Jewell as IAOPA Executive Administrator and Treasurer. Baker, Brown, Yodice and Jewell work at IAOPA Headquarters in Frederick, Maryland. Baker also appointed Ronald D. Campbell as Coordinator of the European Regional Office in London, England; Anthony R. Wilkinson as Coordinator of the Pacific



photo by Reggie Kite

CHIEF—LETTERS

(continued from page 1)

booths were sponsored by a virtual who's who of the U. S. defense industry. Lockheed, General Dynamics, Boeing, Fairchild, Northrop and Martin Marietta were among the larger displays.

Embry-Riddle Air Force ROTC Cadets were asked to serve as ushers for the symposium and were there to help with the other events. They were there to hear their future boss talk about the situation in their future profession, a truly unique opportunity.

EAA

(continued from page 4)

tion Foundation Scholarship Program and additional information on specific scholarships are available from the EAA Aviation Foundation's Education Department, Wittman Field, Oshkosh, WI 54903-3065 or call (414)426-4800.

Stick check...

The Embry-Riddle LaCrosse team practices hard for their next game.

(continued from page 2)

Kost believes that part of the problem is the lack of space in the old flight deck area of the U.C. "People get crowded in the back and talk, then those nearby talk, and before you know it the noise level is a problem for those who came to see the show."

Many would feel that the performer really doesn't care how the crowd reacts, since he gets paid anyway. It has even been said by managers of clubs that the crowd will react the same way no matter who is performing. It seems when we do not pay specifically to see a certain singer, we don't feel obligated to be courteous. The performer is in fact, "a human jukebox"; there only to give us an excuse to gather for drink and conversation.

How about when you consider that we paid \$1,450 for these two performers? Entertainment money comes from SGA fees collected of

each student. If students are going to treat entertainers in the manner demonstrated the past two weeks, why waste the money? Let's all gather in the U.C. and drink cheap beer until we are comatose while listening to a jukebox or radio and put the money into other projects around the University.

The entertainers deserve better than what we have most recently demonstrated. The students on the Entertainment Committee who arrange for the talent and set up the stage and sound system deserve better than this. The members of the audience who want to enjoy the performance deserve better than this. However, the entire audience deserves a chance to catch up with friends and relax.

Maybe more space would help. Maybe a little consideration for the performers and the remainder of the audience would help. Or maybe we should find a better way to spend our money.

WOMEN

(continued from page 1)

safety investigator. She worked with the NTSB in Chicago for a time before deciding to return to being a field mechanic.

Carmien will speak on March 29 at Embry-Riddle about women in aviation. Arrangements for her appearance here are being handled by Humanities Professor Jackie Berg. Carmien will relate some of the interesting stories uncovered in the process of gathering information for *Women in Aviation* and speak on the purpose of the publication.

Carmien's idea to create a magazine about women in the field of aviation was prompted by the lack of such information available in the past. She researched the feasibility

of such a venture and formed the corporation on Sept. 14, 1988.

The first issue of *Women in Aviation* will be published in March 1989. Input from the aviation community is genuinely appreciated. Suggestions or questions may be sent to: Women in Aviation, Inc., 19050 Fowler Road, P.O. Box 4323, Traverse City, Michigan 49685.

Women in Aviation is available on a subscription basis. An annual subscription (six issues) is \$12 for the general public, \$8 for students, and \$18 for foreign subscribers. A complimentary issue is available on request.

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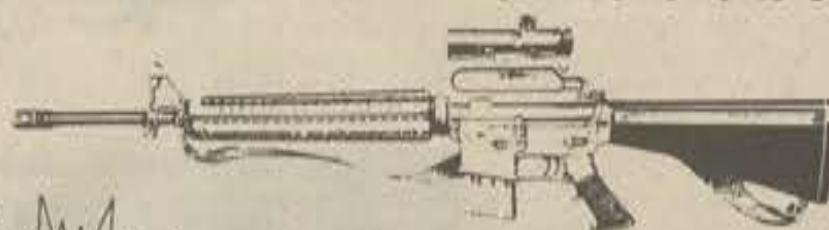
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Orbital Inclinations

by Kevin Stewart
Space Technology Writer

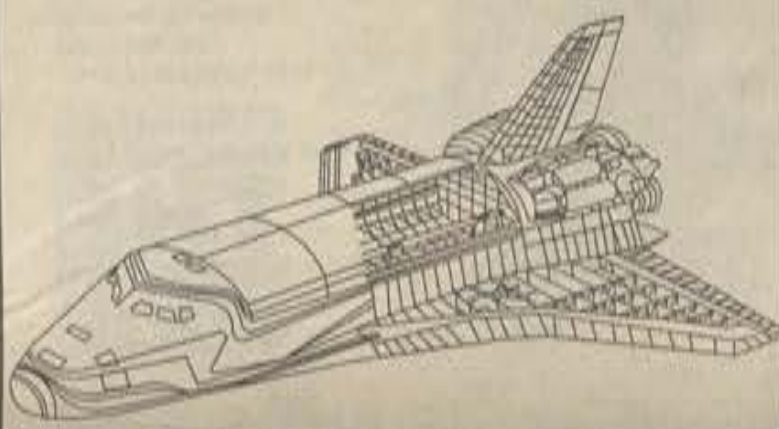
Since the beginning of civilization man has been probing the skies for a multitude of answers to questions such as: why are we here? How are we here? Are we alone?

Within the last century, we can safely say that man's knowledge has increased tremendously. From this wisdom comes plausible theories for the beginning of our solar system as well as other systems. With the advancement of the United States Space Station, *Freedom*, we can now improve upon and possibly change theories developed by previous scientific studies.

We now have the capability of carrying equipment into space, but we also have the technology to use materials already found in space. The moon's highland rocks contain calcium and aluminum and its lavas contain titanium, iron, and magnesium. If a great demand for these materials develops, then the moon presents some advantages. It has a weak gravity field, it is easily accessible from Earth, and it has no atmosphere. Advantages which would apply greatly to transportation and mining ability for a lunar base.

We are leaning closer to a permanent residence in space with the presence of the planned space station. A residence which would greatly benefit studies of our own and other solar systems. With the proper equipment, we can make longterm observations of the universe. We may progress with our term observations of the universe. We may advance our knowledge by proving or disproving theoretical considerations and Earth-based observational data. We may finally know the answers to how stars are formed; or "how earth originated," or "whether life" exists on any other planet or we may simply find out that there is indeed a greater being, creator, of this vast universe. Time will tell.

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Soviets give reasons for similarities between *Buran* and American shuttles

by Mikhail Chernyshov
Novosti Press Agency

The Soviet reusable spaceship *Buran* takes 30 tons of payload into orbit and brings 20 tons back. Many countries are showing interest in such a craft.

The Western Europeans plan their *Hermes* launch for 1997-1998. Recently, the Japanese undertook launching an *INI*-shuttle, aiming for a full-sized shuttle in the future. The British are designing the *Hotol* aerospace plane. Each country is following its own road and relying on its own technology.

The Soviet Union is no exception. Meanwhile, in the Western press the similarity between the Soviet and American reusable spaceships is sometimes explained by the Soviet Union having copied the shuttle.

Hundreds, if not thousands, of models of cars, locomotives, refrigerators and television sets in the world are similar, due to their purpose and expediency. Say an iron can be made round, but it won't be usable.

The basic distinctions, which make all the difference in the world, are hidden inside. *Buran's* electronics, computers and electric are Soviet-made, and so are titanium, beryl, aluminum boride, niobium and other alloys and composites.

The heat-insulation tiles, which withstand temperatures of up to 1,500 celcius, are not to be found on the world market.

Buran's spinoffs are about 30 new materials to find use in aviation, cosmonautics and engineering.

admit that *Buran* has pulled the rug from under the feet of those who like to discourse about "Soviet technological backwardness" and "U.S. technology leaks."

The Soviet Union has outpaced the U.S. in every aspect of space flights,

rockets, making frequent *Buran* flights unnecessary. *Buran* will only do what cannot be done otherwise and fly two to four times every year.

Clearly, the soviet shuttle concept is different from America.

Did the Soviets follow the American way in, say flight safety? Parallels can indubitably be found, by basic differences also exist. The fully automatic *Buran* relieves the crew of the routine and enhances safety.

It has become known recently that the *Challenger* crew did not die in the explosion, but on impact with the water surface which means that a parachute, if the cabin had had it, might have saved the crew.

Buran has not yet flown on a manned mission and it is not yet known if its rescue systems are better or worse. Indubitably, they are different from the American systems.

In its time, emergency ejection was developed for Soviet single-use manned spaceships *Buran* will have its updated version. As you see, the Soviet approach is quite original. *Buran* will live a long life and, with hope, will work in both adjacent and distant space.

(The views expressed are those of the Novosti Press Agency, any comments can be addressed to the Avion.)

"Now, the United States has to admit that *Buran* has pulled the rug from under the feet of those who like to discourse about 'Soviet technological backwardness' and 'U.S. technology leaks.'"

Novosti Press Agency

Why, instead of copying the shuttle, did they develop extremely sophisticated air and gas-dynamic test beds, heat chambers and unique strength-testing equipment?

Why did they send laboratory aircraft and reusable spacecraft models on thousands of test flights? All of the design developments were tested on the ground, in the air and in orbit.

Presaging *Buran*, four satellites representing aerospace vehicles were put into orbit to test the heat-insulation system.

It is clear that a major project relies on a solid scientific and technological basis. Now, the United States has to

well-known American expert James Oberg admits. The *Aviation Week and Space Technology* magazine notes the most perfect flight control methods and makes it a point that the United States has no boosters to rival *Energia* in power.

Add to it the most powerful liquid-propellant engines. Have they also been copied?

In the American shuttles, the spaceship and the booster constitute one system. The *Energia-Buran* Tandem is not interdependent, which is very advantageous.

Energia carries the heaviest payload. Lighter loads will be handled as before by cheaper single-use

USSR reviews *Buran's* maiden voyage

by Chip Zadrow
Space Technology Writer

The Soviet Union launched their version of the space shuttle on Nov 15, 1988. The first flight carried no cosmonauts for safety reasons and to deem the spaceship capable of its flight standards.

Experts at the Baikonur Cosmodrome continue to analyze telemetry data, recorded from the first flight, but at this time the reusable Soviet rocket is considered ready to fly again.

The first flight took the orbiter on a three hour and 25 minute flight with a landing on a five km runway 12 km away from the launch pad. The landing was conducted in poor weather. The wind speed reached 30 mph and the cloud ceiling was only 1,500 ft. The shuttle did prove itself capable with a landing only one second off the planned touchdown.

The shuttle, called the *Buran*, is capable of carrying 30 tons into orbit and can return to Earth with 20 tons of cargo. It will only be used two to four times a year, which will not create total dependability for space launches on the shut-

tle, like the U.S. did recently. The orbiter is carried aloft by a huge booster rocket called the *Energia*.

A major concern of the technicians was the heat shielding system, but all proved better than expected. Out of the 39,000 tiles, only five broke away during flight.

Other systems, such as the guidance, radio navigation, and chassis all held up to overloaded dynamic stresses.

At the present time the *Buran* is only capable of ejecting two cosmonauts out of the orbiter if an emergency arises during pre-launch. Technicians are developing escape methods for other cosmonauts. The *Buran* has many other emergency procedures to protect the crew and the orbiter if any anomaly should arise during flight. They are similar to the U.S. techniques. The shuttle is capable of an abort to orbit, abort once around, and return to launch site for engine failure.

The USSR Academy of Sciences states that crew safety was a major factor in the design of the *Buran-Energia* tandem spaceship.

NASA opens Power Systems Facility for testing *Freedom* components

by Roland Houle
Space Technology Writer

On January 9, the NASA Lewis Research Center dedicated the Power System Facility (PSF), the first facility of its kind in the United States built specifically to test Space Station *Freedom* hardware.

Lewis, located in Cleveland, Ohio, is responsible for *Freedom's* electric power system (EPS). This system includes power management and distribution hardware and on-orbit operations support. The contract to develop and build the EPS hardware and software was awarded to Rocketdyne, a division of Rockwell International.

Two types of power sources will comprise the EPS. Photovoltaic (solar cells) power will be used for the initial configuration, and solar dynamic power will be added with the growth of the station.

The testing facility will provide a broad range of electric power component and system testing for *Freedom*. The main test area of the PSF consists of an 8,300 square foot bay with a fifty-five foot clearance below the ten ton crane. It can serve as a class 100,000 clean room, which is capable of removing ninety percent of airborne particles within it.

One of *Freedom's* critical elements to be tested in the main area is the Solar Concentrator Advanced Development (SCAD) concentrator. The concentrator, which is essential for the growth of *Freedom*, consists of nineteen graphite epoxy panels, each housing twenty-four triangular reflective facets. In its assembled form, the concentrator will be approximately sixty feet in diameter.

Currently, the power PSF utilizes for testing is generated by 960 solar cell modules located in an adjacent solar array field.

Once in orbit, the power system will be capable of providing an average of 75 kilowatts of power on each orbit. The excess power produced will be stored in nickel-hydrogen (Ni-H₂) batteries. In addition to the testing on the SCAD, PSF will also test these batteries.

These batteries will be tested to demonstrate that their designs exceed life and performance goals of five years of continuous service. This harsh testing must be done to insure *Freedom* has sufficient power during the nearly 6,000

sunlight/eclipse cycles it will encounter each year.

The power management and distribution (PMAD) system and its components are another area in which PSF will provide testing. The PMAD system insures the components of the electrical power system to work together to provide safe and reliable electrical power to all areas of *Freedom*.

Once *Freedom* is in orbit, the PSF support center will continue to monitor power system performances. If any problems should occur, the facility has the capability of simulating it for analysis and resolution.

The \$6.2 million Power System Facility will insure that the electrical power system and operates in its proper manner. The performance and maintenance of this system will be vital to the success of the Space Station *Freedom* program.

The manned base of *Freedom* will be assembled in orbit beginning in early 1995. The space shuttle will ferry *Freedom's* components into orbit. Once operational, the permanently manned base will indefinitely orbit every 90 minutes 220 miles above the Earth.

In addition to the manned base, S.S. *Freedom* will have three unmanned spacecraft. Free flying polar orbiting platforms (POP's), one built by the United States and the other by the European Space Agency (ESA), are two of these unmanned spacecraft. These platforms will be used to house instruments, such as telescopes, that require a more stable environment. The ESA will also provide a man-tended free flyer which will orbit with the station.

The initial configuration of the station will consist of four pressurized modules attached to the center of a 360 foot boom. These modules will be the working and living quarters for scientists.

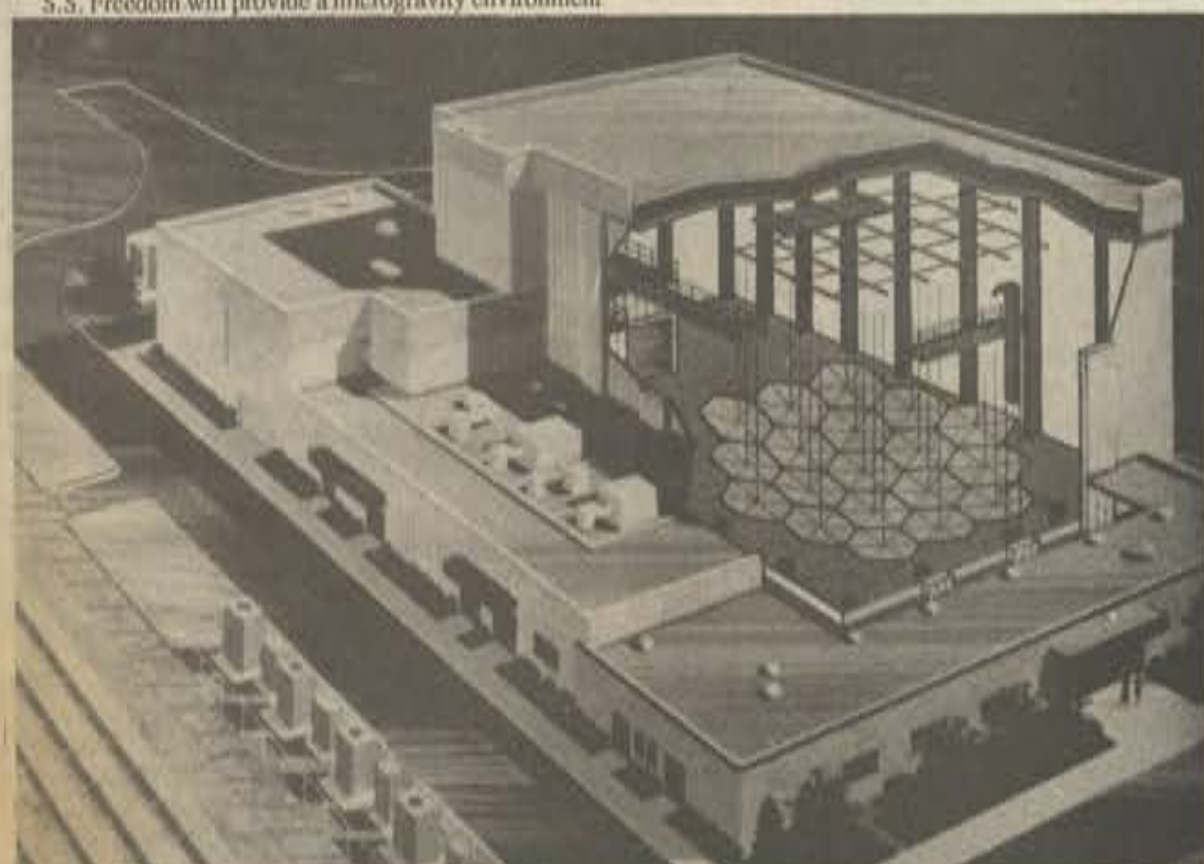
At each end of the boom will a photovoltaic power module, each consisting of two solar array wings. Each array has two flexible blankets that are supported by a deployable/retractable mast. The array wings are nearly 30 feet wide by 108 feet long.

Presently, the growth configuration, commonly referred to as Phase 2, will be the addition of dual keels (each approximately 340ft long) to the existing boom, and they will be joined by upper and lower booms.

In addition, the two solar concentrators will be attached to the ends of the original boom. Each of these modules will provide 25 more kilowatts of power.

Also, a co-orbiting platform will orbit aside the station. This will increase the area for unmanned instruments. S.S. *Freedom* will provide a microgravity environment

for the exploration of material and life sciences. While on-board, scientists will be capable of producing defect-free crystals for computers, studying the Earth's atmosphere, observe the effects of microgravity on living cells and much more.



Power'er up...

The new Power Systems facility opened up recently at NASA's Lewis Research Center. An artist's rendition shows a solar concentrator in the main testing area. Also, the solar array field can be seen to the left of the facility. The facility is the first of its kind built to test electrical power components of the S.S. *Freedom*.

Another Ariane success

by Roland Houle
Space Technology Writer

At 8:21 p.m. (EST) on Jan. 26, Ariane Flight 28 lifted off its pad. The Ariane 2 vehicle blazed into the skies above the Guiana Space Center in Kourou, French Guiana.

The mission of Flight 28 was to place a 1981kg (4637lb) Intelsat V satellite into geostationary transfer orbit, which was successfully achieved. This Intelsat V, designated as F15, is the final satellite in the largest series of commercial satellites built up to now.

Approximately 37 hours after launch, the satellite's motor lifted it from its initial elliptical orbit and

"transferred" it to its operational altitude of 35,788km (22,438mi) in a circular orbit. Then, its speed was stabilized at 11,066km (6,876mi) per hour using retro-rockets.

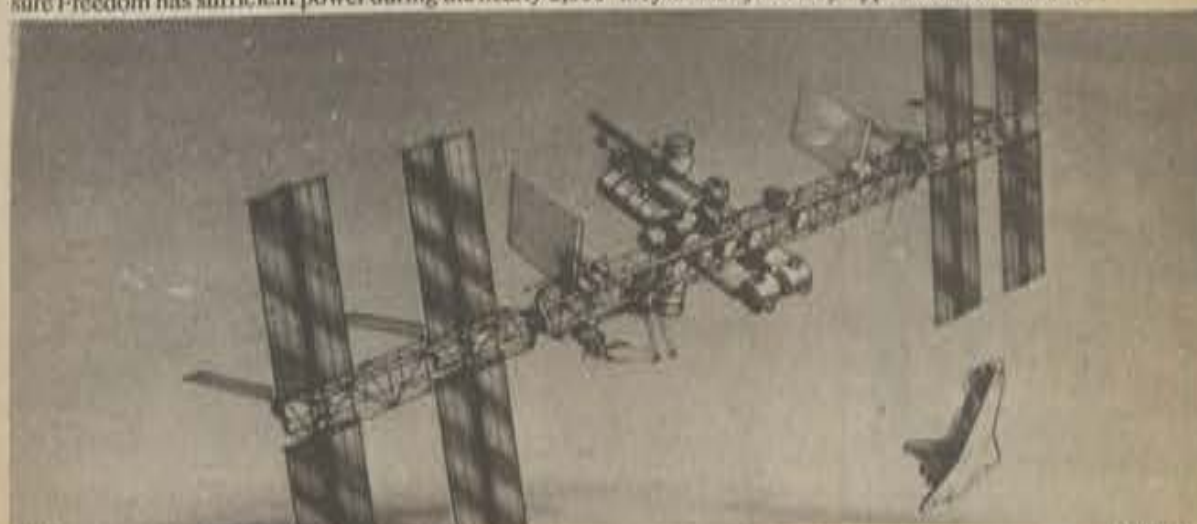
The purpose of the Intelsat V is to provide international telecommunications with its 38 transponders, 15,000 simultaneous telephone circuits and two color television station channels.

The Intelsat V series is owned by the International Telecommunications Satellite Organization (Intelsat). Intelsat is a non-profit cooperation of 115 countries that operates the global communications satellite system for international as well as domestic communications.

This cooperative grew out of the Communications Satellite Act of 1962, signed by President John F. Kennedy, providing satellite telecommunications to all areas of the world.

Intelsat now has a total of thirteen operational satellites and more than 800 ground based antennas. This system links more than 170 countries, territories and dependencies around the globe.

The next scheduled launch of an Ariane vehicle will be on Feb. 28. An Ariane 4 launch vehicle will boost a Japanese telecommunications satellite and a meteorology satellite for the European Space Agency.



Phase one...

This artistic conception shows *Freedom* in its Phase one configuration. Later, more modules will be added to increase the size of the permanently manned station.

January man not quite up to par

by Joe Cambron
Diversions Editor

Kevin Kline (A Fish Called Wanda) stars in this violent and generally tasteless undertaking as a

After a vicious failure at dinner, Nick decides to set up shop in his old precinct headquarters where it seems that everyone is either skeptical of his abilities or simply

police department, and yet another name may be added to his list of enemies.

Mr. Starkey decides to press on nonetheless in search of the killer, and I won't even attempt to explain the logic he employs in finding precisely which woman in all of New York will be attacked next. I think it will suffice to say that prime numbers, astronomy, and the song "Calendar Girl" were involved.

Over-acting, and a limited vocabulary on the part of everyone involved, mars a movie that probably never had a chance from the beginning. If you watch the advertising, you may think that you are going to see a comedy-adventure along the lines of "A Fish Called Wanda" which also featured Kevin Kline, but that is not the case.

To quote the cast of "Sneak Previews": "It's hard to believe that with the new year having hardly begun there could already be a candidate for the worst movie of the year." This movie is truly not worth your time or your money. The good news is that it probably will not be around for very long.

("January Man" is now showing at Volusia Square 8.)

I-100 hosts Leppard laser show

by Joe Cambron
Diversions Editor

Def Leppard is coming to Daytona Beach, well sort of. WNEI 1-100 ("The Boss of the Beach") is sponsoring a brand new laser show featuring songs taken from Def Leppard's last three albums. These songs "provide the driving force for an exciting cosmic concert of lasers and sound."

Shows, Friday and Saturday nights at 8:00pm, 9:15 pm and 10:30 pm.

The Museum of Arts and Sciences Planetarium will offer this show on Friday and Saturday nights at 8:00 p.m., 9:15 p.m., and 10:30 p.m. The cost is \$4.00 for regular tickets and \$3.00 for museum members.

The show is currently running and will continue through Feb. 18. The carefully engineered laser effect mix with loud and bright music in an experience likened to a real concert.

Songs featured are "Rock! Rock!", "Photograph," "Too Late," "Follin," and "Rock of Ages" from Pyromania. "Bringing on the Heartache" from High and Dry. "Hysteria," "Pour Some Sugar on Me," "Animal," and "Love Bites" will be featured from Hysteria.

Call 1-100 for more information.

Movies

AMC Volusia Square 8 Theaters

1. January Man	2:00, 5:30, 8:00, 10:15
2. Three Fugitives	1:30, 5:30, 7:30, 9:55
3. Tequila Sunrise	1:45, 5:15, 7:45, 10:15
4. Mississippi Burning	1:30, 4:45, 7:30, 10:30
5. Beaches	1:45, 5:00, 7:45, 10:30
6. Pumpkin Head	1:45, 5:15, 7:45, 10:15
7. My Stepmother is a Alien	2:00, 5:30, 8:00, 10:15
8. Oliver and Company	2:00, 5:00
8. Gleaning the Cube	7:30, 9:55

Call 258-1146 to confirm times

AMC Daytona 6

1. Who Framed Roger Rabbit?	1:30, 5:00, 7:30, 9:55
2. Scrooged	2:00, 5:30, 8:00, 10:15
3. Cocoon 2	1:30, 5:00, 7:30, 9:55
4. Land Before Time	1:45, 5:15, 7:45, 9:55
5. Coming To America	2:00, 5:30, 8:00, 10:15
6. Child's Play	1:45, 5:15, 7:45, 10:15

All Seats \$1.00-Call 255-4503 to confirm times

United Artists Mall 1-3

1. Deepstar 6	2:30, 5:10, 7:30, 9:50
2. Rain Man	2:10, 4:40, 7:10, 9:40
3. Naked Gun	2:20, 4:00, 5:50, 7:40, 9:30

Call 252-0467 to confirm times

United Artists 4-9

4. Twins	2:45, 5:05, 7:15, 9:30
5. Working Girl	2:20, 5:10, 7:25, 9:45
6. Accidental Tourist	2:35, 5:00, 7:15, 9:35
7. Dirty Rotten Scoundrels	2:55, 5:20, 7:30, 9:40
8. Cohen and Tate	1:55, 3:50, 5:50, 7:50, 9:50
9. Physical Evidence	1:50, 3:50, 5:45, 7:40, 9:40

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✈️ ✈️ ✈️ ✈️ ✈️ **Incredibly Poor**
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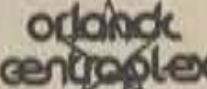
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2/11

2/3

2/5

2/12

2/17

3/25

2/9

2/10

2/18

2/19

3/31

Diversity and change describes Edie Brickell and the New Bohiems

by Joe Cambron
Diversions Editor

Edie Brickell and her band the New Bohemians may very well prove to be the premiere breakthrough act of 1988. Catchy melodies, wry lyrics, and video airplay are mostly to blame for bringing the country a renewed interest in folksy, slow rock with a twist of "lymon" on top. "What I Am," the lead single off the album, is still making its way toward the top ten of Shadde Stevens weekly countdown; and Edie's album, Shooting Rubber Bands at the Stars, was holding on at number thirteen in total sales for the second week in a row.

Edie Brickell has not enabled herself to sit atop the stars that only months ago she was shooting rubber bands at by herself, though. Her band which is made up of Kenny Withrow on guitar, Brad Honser on bass, John Bush providing percussion, and Chris Whitton on drums melds well with Edie's melodic, and often "sing-songy" voice. Kenny Withrow which provides the string twang to "What I Am" even co-wrote a number of the songs featured on the album.

Judging from most newcomer albums, it often seems that a budget of several tens of thousands of dollars is quickly languished on the record's first track, leaving the rest of the album as only a shell of what one might have expected. This is not the case, however, with Edie Brickell and the New Bohemians. The second track, "Little Miss S," may very well make it as a single before too long. It deals with Hollywood burn-out, "living it up to die" as Edie puts it. "Air of December" is another slow, melodic piece of music that summons thoughts of relaxation. "Circle" opens with an attractive acoustic guitar performance before moving into a warm introspective rhythm that allows Edie to contemplate her friendships and relationships.

Side two opens with a somewhat faster paced song entitled "Beat the Time." The Bohemians prove quite effectively that diversity is their specialty through this demonstration of their ability to move from ballads to a faster paced pop song, while showing little regret towards their usual tempo. The rest of side two is littered with songs whose titles consist of one word, such as:

"She", "Nothing", and "Now".

Whatever the case, Edie Brickell and the New Bohemians do have something new to offer popular music. Perhaps it's not entirely new, but at least it's been gone for about twenty years. Besides, you've got to respect anyone who puts linear notes on their first album.



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Last week, Florida was unanimously selected as less appealing than the home state of each student who responded to our poll.

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The Puzzle

ACROSS

1 Irritates
6 Small bottle
11 European
12 Second of two
14 Above
15 Supplications
17 Proceed
18 Lamprey
20 Fear
21 Weaken
22 Projecting tooth
24 Finish
26 Diminutive suffix
28 Run aground
29 Dribble
30 Weapon
31 Garden tool
32 Attempts to

overcome
35 Spoke with speech impediment
38 Gaelic
39 Edible seed
41 Otherwise
42 Damp
43 Poets
45 Sched. abbr.
46 Half an em
47 More pitiful
49 Article
50 Small wave
52 Builds
54 Frocks
55 Mediterranean vessel
DOWN

1 Feel regret
2 Either

3 Demon
4 Fat of swine
5 Trapped
6 Bags
7 Difficult
8 Possessive pronoun
9 Near
10 Ambassador
11 Estimate
13 Lassoed
16 Deep yearning
19 Biggest
21 Spire
23 Standard measure
25 Worn away
27 Compass point
29 Greek letter
32 Drain
33 Peaceful
34 Extras

36 Females
36 Landed property
37 College officials
40 Transgress
43 Nut's companion
44 Withered
47 Health resort
48 Soak, as flax
51 River in Italy
53 Symbol for cerium


(see solution, page 5)

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Carl Rosen plays to a packed Flight Deck

by Suku SS
Campus News Reporter

Carl Rosen, a Charlotte resident originally from Long Island, performed at Embry-Riddle during last Friday's Attitude Adjustment.

Rosen, who started his career with small groups in small clubs, now tours universities singing a wide variety of songs from greats like Billy Joel, Paul Simon, and Elton John.

Rosen learned the piano by ear though he did have a few unsuccessful

lessons in his childhood. He was inspired by the movie "Tommy" about "The Who", causing him to want to pursue a career as a musician.

Rosen's wife, who accompanies him on some trips, is his manager and agent.

Rosen began writing his own songs in 1980. Along with musicians of other groups, he has recorded two albums and is now working on a third. The albums are

entitled "The Tower" (1982), and "Section 8" (1986). Rosen's trips to universities are promotions for his albums as well as entertainment for students.

Friday's show at Embry-Riddle was Rosen's fifth visit to the campus. He recorded a live tape for promotional material to be reviewed as his resume. He uses it to arrange appearances on campuses where he has not previously performed.

This is not a new venture though;

Rosen recorded one of his previous visits to Embry-Riddle. This allowed other universities to hear of the crazy, loud, and enthusiastic students of Embry-Riddle.

The old Flight Deck area was filled with students drinking beer 20 to 30 minutes before the show while Rosen made final checks on his keyboards and mixers. At show time, Rosen came out with a box of lollipops and passed it out to get the attention of the audience.

The opening number was Billy Joel's "Allentown." Once the show began, it was evident that Rosen was more a singer than a comedian.

The audience was very loud and seemingly uncooperative during the first 30 minutes of the performance. Later, Rosen was able to get the audience involved in a Billy Joel song, "Goodnight Saigon" for the live tape. From that point, most of the audience cheered and sang along with the familiar tunes doing their best to overcome the noise level of the socializers in the crowd. The show ended with an encore song and a standing ovation.

Rosen's dream is to have a good following with substantial album sales so that when he visits a town, at least 2,000 people will attend his concert. He spoke very highly of Embry-Riddle's Entertainment Committee. "They have the enthusiasm of ten schools!" Rosen left Embry-Riddle with intentions of visiting again and feeling "like a star."



Rosen returns...

Carl Rosen packed the Flight Deck last Friday for his fifth appearance at ERAU. He played a variety of songs by Pop artists Billy Joel and Elton John, as well as a few original selections. Rosen has long been a favorite and usually plays every semester.

Dartmouth 'Review' exonerated from "Brillo head"

(CPS) -- A New Hampshire judge has ordered Dartmouth College to reinstate two conservative students suspended for 18 months by the school for harassing a professor.

Some observers say Grafton County Superior Court Judge Bruce Mohl's ruling helps define how much discretion a private college has in disciplining its students. Mohl ordered the Ivy League school to reinstate Christopher Baldwin and John Sutter, former editors of the right-wing Dartmouth Review, because a member of the college's disciplinary committee

once had signed a letter that criticized their paper as "racist" and "sexist."

"I'm happy as a pig in mud," Baldwin said. "I just want to go back and have a smooth and uneventful senior year at Dartmouth. I just want to put this behind me." Baldwin and Sutter had accused Dartmouth of discriminating against them because of their conservative beliefs. Dartmouth said it suspended the students because they disrupted a class of Prof. William Cole, who had once sued the Review for libel for calling him incompetent and a "Brillo-head,"

and then had a shouting and shoving match with him outside the classroom.

Mohl, in fact, did rule one member of the panel that suspended Baldwin and Sutter might have been biased against them, and suggested Dartmouth could hold a new disciplinary hearing with a new panel. "Contrary to the college's position, the charges against the four students did arise directly out of their activities on the Review," Mohl wrote in his Jan. 3 opinion. Yet Dartmouth spokesman Alex Huppe also called Mohl's ruling a victory because he rejected the stu-

dents' "major claim... that there was a bias against conservative students and students affiliated with the Dartmouth Review."

The Review, the first and still among the most strident of the newspapers started on some 35 campuses by the conservative Institute for Educational Affairs since 1982, has been a focus of controversy at Dartmouth for years because of its verbal attacks on campus gays, blacks, affirmative action programs and women as well as physical attacks on anti-apartheid campaigns. see REVIEW, page 14

Faculty Profile: Iris Ferrell

by Phyllis A. Salmons
Copy Editor

Iris Ferrell, an Assistant Professor of Chemistry, is very excited about the possibility of a new course in environmental chemistry being developed soon at Embry-Riddle. "It is a course which should be of interest to everyone, especially aviation professionals. We all need to understand our environment in order to preserve it."

Ferrell has taught Chemistry at ERAU for the past eight years. In that time, she has instructed every Chemistry course and lab available here. Currently, she is the course monitor for Basic Chemistry for Engineers (PS 101E). She and two other faculty members are in the process of developing a new lab manual for Chemistry experiments that require approximately one hour for completion.

Ferrell earned a Bachelor of Science and a Master of Science in Chemistry at Michigan Technological University in Houghton, Mich., her area of specialization being organic chemistry. Ferrell initially planned a career in research, but instead chose teaching after realizing how rewarding it could be. "I enjoy teaching because I really enjoy working with the students. I like helping students and I get pleasure out of seeing them accomplish their goals."

After graduate school, Ferrell taught at Michigan Technological University and later at Muskegon Community College in Muskegon, Mich. She did not teach for a few years while her children were young, continuing when her children entered school working as a part-time substitute in high schools of Muskegon County.

After Ferrell's husband, a metallurgical engineer with Brunswick Corporation, was transferred to Illinois, she taught at the College of Lake County in Libertyville, Ill. A few years later, her husband was transferred to Brunswick in Deland, Fla., where they now reside.

In her eight years with Embry-Riddle, Ferrell has served on various

committees for the MA/PS Department including the Library and Visual Aids Committee, the Curriculum Committee, and the Salary Study Committee. She has judged numerous science fairs at local schools and has participated in the Mother's March for the March of Dimes. Ferrell is a member of the American Chemical Society and the American Association of University Professors.



Iris Ferrell

When asked how Embry-Riddle could be improved, Ferrell's "wish list" would include additional facilities for education in chemistry. Says Ferrell, "I would like to see new educational facilities, specifically a science building with upgraded chemical facilities for a Chem I Lab and a Chem II Lab, a balance room, an instrument room and a chemical storage facility with a chemical preparation room attached. Labs should have distilled water piped in and enough hoods to accommodate 18 students per lab."

"Also, I would like to have a demonstration lecture room with projection capabilities and faculty offices next to the labs. With ERAU's current emphasis on research, I believe we should have appropriate analytical and organic chemistry instrumentation, such as an Infrared Spectrophotometer."

As far as the chemistry course requirements are concerned, Ferrell believes, "engineers should be required to complete two semesters of chemistry and have a course in organic chemistry available as an elective." see FERRELL, page 14

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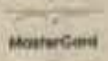
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Army ROTC

by C/Maj Jim Mac Kay

Eagle Battalion Public Affairs

The United States Army Cadet Command was organized April 15, 1986, and since that time has been developing meaningful traditions to be observed by cadets across the nation. Recently, the Embry-Riddle Eagle Battalion began a tradition of its own. On the evening of January 12, 1989, the Eagle Battalion senior cadets gathered with cadre and invited guests at the university President's Residence. The attendees enjoyed a cocktail hour while the tension built. Finally at 8:00p.m. the long awaited branch assignments for the graduating seniors was announced. One by one, a brief history of the various branches of the Army were read, along with a short description of the Officer Basic Course school location. Then the names of the particular

branch selectees were called. They stepped forward to receive the congratulations of the cadre and to pin on the respective insignia on their "class A" coat lapels.

The ceremony marked the completion of a process that began in September of last year. All graduates of advanced camp from the previous summer filled out branch assignment preference statements. In December a board of senior Army officers met to consider each of over 8000 cadets from across the country. Then assignment of branch was made based on the needs of the Army, the individual cadets overall performance and desires. Although there were some individual disappointment among the seniors of Eagle Battalion, most received one of their first branch choices and all are still proud to be serving in the greatest Army in the world.

Brothers of the Wind

by John Cozen

Club Correspondent

Hi, Welcome back. Last semester was very productive for B.O.W. The club had various successful activities such as "Feed the Hungry" dance, the Physique Show, and an opportunity to talk to President Tallman. This semester promises more great events. Upcoming events include a fashion show, speaker for Black History Month and numerous other activities.

Rene Espinet did a great job of making B.O.W. the largest and most influential clubs on campus. It will be our next president's honor and duty to keep the club growing.

ing like Rene' started. We as a club have many people who will work as hard as Rene' did. In the upcoming elections we get to elect people who will make B.O.W. a great club, so be sure to vote. The club is counting on you.

As a reminder, any upcoming B.O.W. events will be posted on our bulletin board. It is located in the UC and right outside the Epicure entrance. Make sure to check this board daily.

Brothers of the Wind meets on Thursdays in room E-611 at 1:30 p.m. I encourage everyone to attend.

Delta Chi

by Jeff Honyak

P.R. Chairman

Can you say race car? Yes folks it's that time of year again. This upcoming weekend marks the beginning of Speedweeks '89. Make sure to get in touch with Rich or Jim and sign up to work. Also this weekend holds the end of spring rush. This is the last chance until next fall for prospective members to get involved with the great experience which is Delta Chi. For more information stop by our rush table in the UC or call 255-4767.

Thanks go out to all those who stopped by our house last weekend. We hope you enjoyed yourselves and are looking forward to seeing you this weekend. If you need a ride don't be afraid to call the house.

If anyone is interested in a slightly modified Honda please see Tony. He'll give you a good deal. Finally, to Greg; what's grey and goes VROOM in the middle of the night?

ERAS

by Chip Zedrow

The Embry-Riddle Aerospace Society would like to thank the club members for giving support at the booth on C&O day. Attendance was very good and we should pick up quite a few more members.

ERAS is looking forward to a very busy and interesting semester. As a club, we will be attending the next space shuttle launch in late Feb. At this time it looks as if the launch may slip a day or two, but we will still be heading down to the Cape to cheer on *Discovery*. By the way, there is a

Orientation Team

by Babette Steiner

Remember when you first came to this University? Think about it. That picture is still vivid in my mind. Like many students, I came here fresh out of high school. I was nervous; this definitely did not resemble my prep school back in Pennsylvania. It was a brand new environment, which I needed to adjust to and in the process I searched for advice. It is now two years later and I now view Daytona Beach as my home.

You probably have a story that is very similar to mine. You remember all the ordeals, dilemmas, and adjustments that you went through. Well

now that you have so much experience, why not share it? I do!

I'm a member of the Orientation Team. One of those people that had you play all those games in the UC (such as screaming your birthday), that gave you all that information (school policies and procedures, and course selection) and brought you on a campus tour. Though many of you think "O" Team doesn't seem that interesting, you'd be surprised! Though our main job is to help incoming students, we're also involved with other activities. Last semester a bunch of us constructed a raft for the Riddle Regatta and al-

though I accumulated a blue hand from my "brilliant" painting tactics, I had a great time. A little water, a lot of wind, and a bunch of crazed kids, what more could I ask for?

Well, I can't give you a full description of everything that we do because there is a lot more involved in Orientation than what appears. Just think about it. You'd spend a weekend at camp getting to know what the job encompasses and mingling with other leaders. The Orientation Team can help you accomplish many goals and more. I've learned a lot and it's something that I really enjoy.

Precision Flight Team

by Sherry Miller

Welcome back Flight Team members! I hope that everyone has had a refreshing break because Wiggie says it's back to work immediately! Sign ups have been posted for the event, tryouts in the usual place. Check these notices daily. On Wednesday, a competitors meeting was held. If you missed it contact Steven Haddad ASAP!

Several activities are planned for this semester so it is imperative that

everyone does their part. The team will work the Race Week events in February. For further information, contact Brian Florence. Also, time is winding down. If anyone has Loening ideas get in touch with Brian while we still have time to complete the projects.

This week's meeting was held on Tuesday. Just a reminder: meeting are held at 6:30 p.m., instead of at 7:00. Patti Leon passed out the new University patches for the Flight

suits. See her if you haven't gotten one. Also dues are due. The Safety briefing was given by Ruth Rigney on weather reports. Thanks Ruth for a very interesting and useful briefing.

On the lighter side, Happy Birthday. Amanda! Also, team members if you are not playing please come out and show your support for the Flight Team Softball Team.

AIAA

by David Storm

Welcome back! Studies are in full swing once again and so is AIAA. Once again National Engineers' Week will be held in February with the highlight being a dinner meeting for area chapters at the Indigo Lakes Country Club. A glider contest will also be held and a guest lecturer, possibly an astronaut, will be coming to speak. Other upcoming events will also include a field trip to the next shuttle launch in February and a tour of Martin-Marietta in March or April. Also scheduled for March and April are guest speakers who will be invited to talk about what the industry looks for in an engineer.

Tomorrow (Thursday Feb. 2) will be the next meeting for the club. It will be at 1:30 and is tentatively set to be in room A-109. Dues will be collected and future activities will also be discussed. Anyone who is interested in joining just feel free to sit in on the meeting. Blue Skies!

REVIEW

(continued from page 13)

The students equated the enmity many Dartmouth residents have expressed toward the Review with discrimination against conservatives. They sued, alleging Dartmouth violated their First Amendment rights as reporters and dis-

criminated against them because they are conservative. Their reinstatement, however, is not the end of the matter. Lawsuits are pending in state and federal courts charging Dartmouth with discriminating against conservatives.

FERRELL

(continued from page 13)

In her spare time, Ferrell enjoys golf and watching all types of sports. "I am a good spectator."

The Ferrell's have two daughters, both professional musicians: Patti is

the principle clarinetist with the Virginia Symphony, and Pamela is a free-lance violinist who is first violin with the Lake Forest Symphony in Illinois.

Ferrell is popular among the stu-

dents at Embry-Riddle and is always willing to take time to help students. "My primary concern is the student. It is very rewarding to feel like I am making a contribution to someone reaching a goal!"

Iris Ferrell has helped many students attain a better understanding and greater appreciation for chemistry. We should consider ourselves lucky to have her at Embry-Riddle Aeronautical University.

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Sigma Pi

With the first week of Rush '89 underway, it appears that the Zeta Beta chapter of Sigma Pi International will, undoubtedly, have a fruitful spring. Last Wednesday, we kicked off the series of Rush parties with the ever popular Green Butt Hole Punch Rager. Complimenting the Green B.H. Party, the Pi guys threw an equally successful Hawaiian blow-out. To say the least, both parties went very well.

This last week the Z-B chapter was honored to have our

Province Archon and Sigma Pi National Representative, Mr. Dean Hauser and Mike Scutteri, respectfully visit our humble home.

The softball season this year looks promising especially with the help of the recently graduated Theta Pledge Class, the Big Guns of the team.

The semester's past have been quite rewarding, and were looking forward to another great semester.

Sigma Phi Delta

by Mark Severson
Club Historian

We, the Engineers of Sigma Phi Delta, have started off the spring of 1989 with an interesting rattle and hum. To begin with, we will be working the 24 hour race; handing out concessions to the teams in the pits and paddock area.

We are strictly enforcing a

"Professional Rush" this semester. Simply put, we would like all our rush candidates to know that we promote and encourage any advancements on their behalf towards the final career goal of becoming an Aeronautical Engineer.

This upcoming Friday, we will be having a Wind Tunnel Demonstration for our rush

candidates. The demonstration will be given by Frank Roderick. Frank is a graduate student here at Embry-Riddle, and he is presently instructing selected Wind Tunnel Laboratories.

In conclusion, I am very happy to report that our two houses should be completed (restoration), before beginning of Fall '89. Study hard!

Dear Graduating Class:

My name is Sherry Miller, and I am a candidate for Senior Class President. Together, with my running mate Mackilwain Wilson, Mack and I would like to work with you to make the Class of 1989 the best ever at Embry-Riddle.

I am a senior in the Aeronautical Studies program with a concentration in Management. Also, I have an Associates degree in Aviation Business Administration. Currently, I am a member of the Embry-Riddle Flight Team where I managed and organized several projects including the Loening trophy (a history of the team activities during 1987-88), participated in a competition, and represented the Team and the University in numerous speaking engagements. In the spring of 1988 I served as Vice President of the Student Alumni Association and assisted in organizing several club activities including Alumni Speaker Day and the Homecoming Booth. I have also been recognized by Who's Who among American College Students. Upon graduation I will enter the United States Navy as a flight officer. Meanwhile, I urge everyone to stop by the Career Center and introduce yourself and your ideas.

My running mate Mackilwain Wilson is equally qualified. He is an Aviation Business Administration major, and is in several clubs and organizations around campus. These include American Association of Airport Executives, Management Club, Student Campaign against Hunger, Inter-fraternity Council, and Founder of Kappa Alpha Psi fraternity.

Now to the Business at hand. With only 87 days until graduation, much work must be done. The University is changing rapidly, growing like never before. We must pull together and work hard to make Senior Party '89 and graduation the most memorable for all. I urge each of you to attend the Senior Class meeting on Feb. 7 at 8:00 pm. Remember classmates, Mack and I are ready to work with you, for you. It's up to you to make it happen.

Sherry Miller and Mack Wilson

The race is on! The applications for president and vice-president are in. Dave and Kris wish everyone the best of luck and are hoping for the most qualified to win. The goal is to organize the most memorable and exciting graduation for the class of 1989.

Leadership, hard work, and devotion are the traits for an effective president and vice-president team. These traits characterize Dave and Kris. Dave is the Student Alumni Association president and has worked hard to bring the Embry-Riddle alumni closer to the student body. He has also been an active dorm 1 resident advisor and senior resident advisor for over three years.

Kris Koenig has also proven leadership qualities. As president of the American Association of Airport Executives club for many years, she has formed the club into a highly motivated, popular, and impressive organization. In addition, Kris can usually be seen as a fitness instructor for the Aeronautics gym.

The senior class of 1989 will soon be able to show their support for the president and vice-president combination that will work hard for an unforgettable graduation. Dave and Kris are both qualified and willing to work hard for your graduation memories.

Dave and Kris campaign staff

Good luck to all the candidates running in this years race

A reminder to all graduating seniors, Senior class meeting on Feb. 7, at 8:00 in the U.C.

As freshmen in 1984, Clay and I knew that the pavement covered campus of Embry-Riddle had plenty of potential. The small Learning Resource Center and off campus Administration Building bloomed into the Jack Hunt Memorial Library and Spruance Hall. These are only two of the many outstanding achievements that have resulted from the many years that you (now seniors) have been a part off.

My memories began June 25, 1984 pursuing a degree in Aeronautical Engineering. Wanting to be a bigger part of the University, I took part in the Aerospace Society, became a math tutor, Community Relation student assistant, resident advisor, and Head Resident of University-managed housing. During these activities, learned awards of Dean's list and Who's Who Among Students in America's College's and Universities.

Clay's career began September 1984 pursuing a degree in Aviation Technology with a concentration in maintenance and flight. Soon after, Clay realized the importance of being involved within the university. Clay became an Orientation leader, Resident Advisor, Health/Counseling and Student Activities student assistant, and presently Head Resident of University-managed housing. Clay was also awarded the honor of Who's Who Among Students in America's Colleges and Universities.

Through our stay here at Embry-Riddle Aeronautical University, Clay and I have gained valuable experience and lasting memories. These, combined with the desire to help our fellow students and with help from the graduating seniors, Clay and I will make spring graduation 1989 a most memorable experience.

Thank You,
Chad Rombalski

Orientation Leader Positions !! Now Available !!



DO YOU ENJOY:

- Working with a team ?
- Meeting new people ?
- Helping others adjust ?
- Being a leader ?

If you answered yes to these questions, then we want to talk to you about joining the ORIENTATION TEAM. Applications are now available in the Counseling/Orientation Center for 1989/90. Deadline is Friday, February 17, 1989 at 5 pm.

Autos for sale

VW RABBIT '78-2 door, Reliable. Great runner, clean. For more info, call (904) 253-8974. \$600 firm.

1980 PORSCHE 928-New tires, paint, battery, alternator. Automatic with all power options. Only \$12,500. 1-692-5951 or 1-428-0081.

FORD LTD-2.3, 1984, great engine, body, interior. You have to see it. Contact Kurt, box 3343, or come see Morristown #20, after 6pm.

FORD MAVERIK 76-Air cond. Good condition. Good shape. Asking \$600. Call 254-8865.

1987 ESCORT GT-Great cond., two new tires, must sell to pay for school! \$7500 or best offer. Call 254-7990 ask for Chris.

BEACH CRUISER-Only \$50. Black/white trim like new. Call 257-6982 or 255-9170. Ask for Glenn.

1985 NISSAN PULSAR. Red w/ Silver Trim, 39K, PS/PB, AM/FM, Extra Clean, Must see. Asking \$5200. Call Chris 258-6137.

Cycles for sale

1987 HONDA HURRICANE-1000cc, 9000 miles, excellent condition. Priced for quick sale. 2,800. 1-692-5951 or 1-428-0081 Norm.

1978 HONDA HAWLT-\$300, excellent running condition. Must sell quickly. Call Larry after 6pm. 257-2524.

BIKE FOR SALE-Schwinn Mens 10 speed, 27" wheels, touring seat and handles, rear rack, blue. Contact Paul after 6pm. 756-7869.

Roommates

ROOM TO SHARE-With another Embry Riddle student, with your own bathroom. Air-conditioned, pool, tennis court, in a townhouse surrounding. \$145 a month, 1/3 utilities, \$50 deposit. Please phone after 10pm. 254-5028 or 8-5pm x6120. Only five minutes from ERAU.

ROOMMATE WANTED-To share a clean 2 bedroom, 1 bath apt. Located on 424 N. Grandview Ave. Branches East Apt. Complex. 1 block from the beach, 2 blocks from Seaside. \$185 per month includes basic cable + 1/2 electric. If interested contact Rick - box F-225 or call 255-8956.

WANTED-Mature male roommate to share large 2 bedroom apt. Nicely furnished, cable tv, 1 block from beach. \$250 per month. Call Pete at 253-4934.

ROOMMATE NEEDED-To share the bedroom furnished apartment. Preferred non-smoking engineering student. Rent + utilities approximately \$225 per month, 175 deposit. 4 miles from campus. Bm 756-7932.

SEMI-QUIET, NONSMOKING ROOMMATES NEEDED-For 3 bedroom 2 bath house in Port Orange, 230/month, 1/3 utilities + deposit. Have full kitchen & laundry. Must like/tolerate cats. Contact Paul, 756-7869 after 6pm.

HOUSE FOR RENT-3 bedroom, beachside - partially furnished. \$550/mo. + \$300 sec. Call 254-8876 after 6.

ROOMMATE WANTED-To share 3 bedrooms/ 2 bathroom Woodforest Apt. Private bedroom share bathroom. Washer and dryer. Complex has 2 pools/jacuzzi, tennis & racquetball courts, weight room. Rent is \$167.50 per month plus utilities. Never goes over \$200/mo. Please call Patty or Mark ASAP at 257-6458.

ROOMMATE NEEDED-Non-smoker. Mirror pond apt. #109 (3rd floor). Excellent location about 2 miles from ERAU on Clyde Morris Blvd. Subleasing for \$202.50/month. 760-0515.

ROOMMATE NEEDED-Affordable elegance, furnished townhouse. 2 bedroom, 2 bath (priv), desk, computer, bar, maid service, ceiling fans, washer and dryer, dishwasher, cable, 2 swimming pools, pool table, video games, centrally located 2 miles from campus. Ask for Kris, 254-1957.

FURNISHED ROOM FOR RENT-Only 1/2 mile from school. Rent includes: electric, water, heat, air, washer, dryer, microwave oven, dishwasher, cable t.v., etc. No lease required. Only \$225 monthly. Call 255-9170 or 257-6982.

3 BEDROOM APARTMENT-Needs roommates for summer - May - August. \$187 per month. Located on Halifax. Call 252-4200.

ROOMMATE WANTED-Partially furnished 3 bedroom house beach side. 160/mo. + electric, phone, 1 month security deposit. Call 254-8876 after 6.

Misc. for sale

FOR SALE-Drafting table w/parallel arm - \$70, cordless electric eraser - \$60, queen size air mattress - \$50. Phone 761-7988 or Box 2738.

COMPUTER FOR SALE-New AT Compatible 286 12MHz clock speed w/Zero wait state/512KB of 80ns Ram, 1.44 meg 3.5" floppy drive, 32 MB hard drive w/28 ms access time and 1:1 interleave, 8 expansion slots 6-16 bit 2-8 bit, 200 watt power supply, full 101-key keyboard w/"Trackball click", 12" high resolution amber monitor, Hercules compatible monochrome graphics card, 80287 math co-processor slot, battery back-up and key-lock. 1 year full warranty! Call 788-1078 \$1700.

FOR SALE-TARGA car cassette stereo. Auto reverse, music search. Only one year old. \$70. Contact Matt at 255-3057 or ERAU Box 6767.

EXERCISE BIKE-Propport 450 stainless steel flywheel, digital display for time, speed, distance. Perfect condition. \$60 but will talk about price. Call 254-7953.

QUEENSIZE WATERBED-Perfect condition. \$90 or best offer. Call 254-7953.

1 1/2 GALLON OCTAGONAL FISH TANK-With accessories. \$5.00. Call John at 258-9898 or Box #7507.

DRAFTING TABLE AND TWO DRAWER FILE CABINET-All in coordinated black and white colors. Perfect condition. Perfect for studying! I will throw in free a grasshopper lamp. All for just \$60 or best offer. Need to sell!!! Call 254-7953.

STEREO-Yamaha direct drive, full auto turntable B.L.C. Dolby stereo cassette deck, Fisher studio standard CD player, Harman Kardon control amplifier, Panasonic 10 band equalizer w/TH spectrum display technique AM/FM stereo quartz synthesizer, 2 Panasonic 2 way speakers, 2 Sansui 2 way speakers. Perfect condition. 110 watt total power. All for just \$500, but will talk about price. Call 254-7953.

DIVE EQUIPMENT-In new condition. Mod. wet suit, Sherwood B.C., Parkway regulators 1st & 2nd stage, console & octopus, Tank-Alum 3000, knife, dive light. \$655. Call Rob 253-1125.

GUITAR AMPLIFIER-Yamaha 112, fifty watts, distortion, reverb, footswitch jacks. \$90 or best offer. Call Russ at 258-9996 Rm 344 Dorm 1.

TANDY PC-3 POCKET COMPUTER AND PC-3 PRINTERCASSETTE INTERFACE-The PC-3 has 4K RAM memory and can be programmed in Basic. Will sell both for \$90 or best offer. Call 238-1295. Ask for Jeff.

ELECTRIC GUITAR-\$75. Contact Sean at Box 5387.

75 GAL TROPICAL FISH TANK-New never used. Call 252-9714 or Box #5898 ask for Alan.

MOVING SALE-Waterbed, couch, dining room table, desk with chair, antique table, rowing machine, text books and more. Call 673-6492 now.

FOR SALE-4 Toyo 2 754 steel belted radial tires, 225/75-R15 mounted on 15x7 chromodular rims. Six lug pattern fits Nissan or Toyota trucks. \$100 for set. Call 258-0809 after 5pm ask for Arnold.

HOT AIR POPCORN POPPER-\$5.00. Call John 258-9898 or Box #7507.

TRI-FOLD KNEE-BOARD WITH VELCRO STRAP-Perfect for X-counters. \$15. Call John at 258-9898 or Box #7507.

TI-30 SLR + SCIENTIFIC CALCULATOR-\$10.00. Call John at 258-9898 or Box #7507.

NEED TO SELL-Radio Shack 8-ch. scanner with 6-DAL frq., batt. pack, recharger, list of local government freq., & 2 ant. Got it for \$50 will sell for \$80. - 28-80mm zoom lens for Canon (Telestar). Paid \$130, use only a yr. for \$70. Contact Nelson at Box 5476.

LARGE DORM SIZE REFRIGERATOR-Clean and works real well. \$50. Call Rick at 253-8779.

MINI-14 (.223 REM)-W/3x9 Bushnell Lite Scope & 3 mags. \$440 or best offer. Ask for John at 788-7837.

ONE WAY AIRLINE TICKET-From Jacksonville to L.A. For Jan. 31st '89 morning. \$100. Call 253-6138.

TWIN BED FOR SALE-Nearly new with frame and box springs for \$75. Call Mike at 761-4533 after 4pm.

ENGINEERING TEXTS FOR SALE-ES 307 Fluid/Tyrol. List \$50 sell \$35. ES 303 Hibbeler 4th Ed. List \$51 sell \$35. 252-4200.

FOR SALE-6'3" Grizzly Bear surf board w/leash. Excellent condition. Must sell \$170. Call Tim or Dave at 258-0856.

BOOKS FOR SALE-ET 101/110 text \$28. EC 210 economics \$23. HU 1221 with peer-review pages \$12. Call Nathan 761-8801.

SOFTWARE FOR SALE-Yeager's Adv. Pil. Trainer. Brand new \$35. PFS write and PFS file. 5 1/4 Ms Dos. Never used. List 140 sell 100 each. 252-4200.

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KRACO CAR STEREO-AM/FM stereo/cassette, built-in equalizer, looks good. \$75 or best offer. Contact Vince at box 7932 or 756-4383.

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DIVERS WATCH-Citizen Quartz Aqualand multifunction with depth sensor. New, never used. Sells in stores for \$350; sells in diving magazines for \$270; asking \$225 or best offer. Call 767-2590, leave message.

Miscellaneous

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DC-3, C-47, DC-4, DC-6, DC-7-Do these aircraft hold a special place in your heart? Well, I am trying to put together a club for people who love the Douglas airliners of the past. I should very much like to hear from both students and staff. Please leave your name and a way in which to reach you in box 6880.

Need your term paper typed? I can do it for you. Typed, spelling and grammar corrected for only \$1.00 a page. Call 255-3057.

GUNSI-For all your hunting, sporting, and defensive needs. I am a federally licensed firearms dealer and can offer the lowest prices in town. Contact Harold at 252-2363 for a price quote on your gun needs.

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SPRING BREAK PROMOTIONAL WORK-Expoamerica wants you!! \$6.00/hr March 17-21, 1989; Ocean Center. Must be available all 5 days 2pm-8pm. Pool promo's March 15-25 10am-2pm. Evening hours also available. Watch next week for interview info!!

BUREAU-Wooden, 5 drawers, excellent shape - \$45.00. Bed frame and matching wood headboard - \$25.00. Call Diane - 677-7100.

TYPING-Resumes, technical reports, letters, resumes. \$1.50 per page (letter quality). Call ext. 6637 or 760-2486.

P.A.D.I. SCUBA DIVING-Open water certification - \$99.00. 2 week course at ERAU. Other certifications offered. Call Jan at 761-2021.

Personals

To all the Brooklyn Tech graduates out there. Good luck in '89'. Buddy, '87"

A-4, Get a real plane! Fighters at IT!

Hey, I'm still waiting to know when you're going to stay ALL NIGHT! GLEN

HAPPY, You take the fears away and put light at the end of the tunnel. You make the small things add to a very big whole. That and a little paint makes life wonderful! SPOT

BCUBED, What's up? Weren't expecting anymore personals. You know me better than that. Great times are ahead. I love you. Always. YOUR NEW ROOMIE

DOOMER, It's great to be back in Florida again with you. Just wanted to say that I really did miss you over break. Sorry that I let you down by not calling you on Tuesday. I'm happy how things are going now, so keep it up. Love ya! ROT

Miss SMSU How is the weather in Springfield? It was nice to talk to you on the phone today. It made my day. Write soon! Daytona Beach Paper boy

"Got an idea for the JOB PILOT comic? Send me a note: Box 2513."

Leslie Elaine Blahut "I could wrestle alligators in the Okefenokee, just to prove my love to you" Walter.

ANGEL BINGO! You found it...Had a great time Saturday. You're a sweet-heart...Check your mailbox today!

P.S. ALP axed me to say "Hi" for him

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ACROSS FROM SPEEDWAY

Bloom County

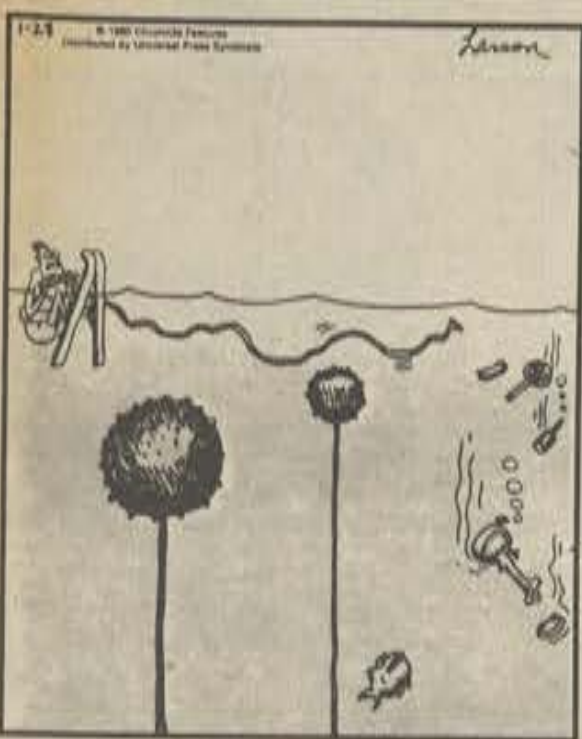
Berke Breathed

The Far Side

Gary Larson



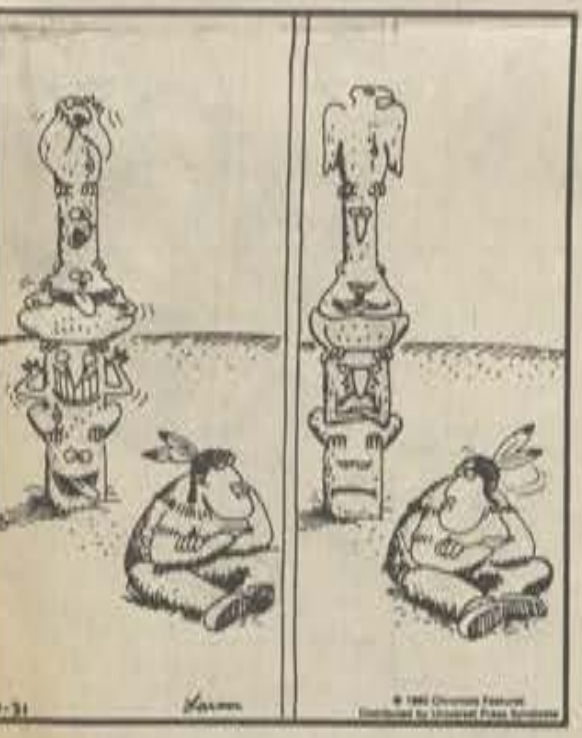
"Oh, Mrs. Oswald ... you've forgotten something again."



"So! ... You've been buzzing around the living room again!"

Calvin and Hobbes

Bill Watterson



"I used to be somebody ... big executive ... my own company ... and then one day someone yelled, 'Hey! He's just a big cockroach!'"

Garfield©

Jim Davis



701 South

MTV SPRING BREAK '89 HEADQUARTERS

701 SOUTH ATLANTIC AVE. IN THE
TEXAN HOTEL, DAYTONA BEACH
255-8431

SUNDAY- SUNDAY BLOODY SUNDAY 2 FOR ONE
HEINEKENS
MONDAY- WDIZ ROCK & ROLL SHOWCASE, LIVE
MUSIC THIS WEEK
TUESDAY- SUNDAY BLOODY SUNDAY AGAIN, 2 FOR
ONE HEINEKENS
WEDNESDAY- 102 JAMS NIGHT \$200 MINI SKIRT CONTEST
WET T-SHIRT CONTEST \$150 CASH PRIZE
THURSDAY- FREE DRINKS 9PM-12AM FREE 701 MUGS
1-100 WEEKEND PARTY, SPECIAL DRINK
FRIDAY & SATURDAY- PRICES

Nothing You Have
Ever Experienced
Could have Prepared
You For a Night Club
Like 701 South

*SMALL ADMISSION FEE IF UNDER 21
*EXCEPT FREE DRINK NIGHTS

NEVER AN ADMISSION FEE FOR
RIDDLE STUDENTS*

COME
PARTY