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Embry-Riddle Aeronautical University

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This Week

■ Continental's flight 1713 crashes at Denver airport

page 4

■ Space Shuttle solid rocket boosters tested again

page 9

CIVIC

An Award-Winning College Newspaper

Volume 57, Issue 10

Embry-Riddle Aeronautical University, Daytona Beach, Florida

November 18, 1987

Prof. Trebbe: an inside look Daytona-Miami service started

By Mark Barker
Staff Reporter

Shannon Trebbe is an Associate Professor in the Aeronautical Science Department here at Embry Riddle Aeronautical University. Mr. Trebbe came to ERAU in 1980 after an exciting career in the United States Navy.

Trebbe graduated from the University of Oregon with a degree in Political Science. Upon graduation Trebbe joined the Naval Air Cadet Program. After flight school Shannon spent two years in the Far East flying various reciprocating and turbine powered aircraft. Trebbe then returned to Oregon (Spartan California) and completed a tour flying the DC-3, or as the Navy calls it, the R-4D. Trebbe then moved on to a position as a ground instructor pilot at the Naval School of Pre-flight teaching cadets and officers.

Mr. Trebbe was privileged enough to be in the first class of Navy pilots to be trained by the need for the P-3A Orion. The P-3A was the first cruise turboprop designed for use as a sophisticated enemy submarine detection aircraft. Trebbe was involved in the first deployment of this aircraft to the Adak Alaskan Islands in Alaska.

Mr. Trebbe then attended the

four month stay at Air Force Flight school to learn to fly the EC-130H. Trebbe was then assigned to command the first command squadron of EC-130H aircraft in a classified mission concerning communications systems. Trebbe was then assigned as Navigator on the Aircraft Carrier Hancock. He served on the carrier for three cruises during the Vietnam years.

After these cruises Trebbe was assigned to the National Command Center in the Pentagon under the

for a year only to return to the Pentagon to serve with the Special Operations Division of the Joint Chiefs of Staff. This was particularly interesting because of the opportunity to be involved with covert operations against the Soviets. During his time with the Central Intelligence Agency, Trebbe was involved in the planning and execution of the ill-fated attempt to rescue the hostages held by Iran during the Carter administration. During his stay in the Navy Mr. Trebbe obtained a Masters Degree in International Affairs

flight is scheduled for arrival from Miami at 2:50 p.m., and departing at 3:10 p.m. daily.

Two additional flights are scheduled: a morning flight departing at 9:40 a.m. and an evening flight leaving at 7:50 p.m., for Dec. 13.

Bar Harbor Airlines, which is one of several commuters operating under the Eastern banner, is operating with one flight a day to and from Daytona's Regional Airport. The

manufacturers to be the best "hot and high" performer in its class, used in hot day and high altitude scenarios.

The Daytona-Miami flights will be 1 hour 10 minutes one-way, and will be handled through Eastern's ticket counter and operations at the airport. The commuter will help with Eastern's international connections, as well as a shuttle to South Florida.



Autumn photo by Richard Clarke

By Chris Logsdon
Production Manager

The long awaited Daytona-Miami air service has now become a reality with Sunday's inauguration of Eastern Express.

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Flight Team wins at NIFA

By Steve Cagle
Staff Reporter

The Embry-Riddle Precision Flight Demonstration Team coordinated the National Intercollegiate Flying Association (NIFA) Region IX SAFECOM held in Auburn, Alabama Nov. 12-14.

The Flight Team won the top team, top pilot, and ground events champion awards. They finished second in flying events. Competing teams included Broward

the airport and the local geography. Head coach, Mike Wiggins wanted to arrive early in order to allow Riddle pilots to practice before other schools arrived and congested the traffic patterns. It also provided time for the team to orient themselves to the ramp area and staging procedures for the competition.

The results of the competition held on Friday and Saturday were announced at a luncheon at the Auburn Conference Center which featured

National) event was won by Steve Cagle with Mike Rapuzzo and Todd Funte in third and fourth.

Steven Haddad placed first in Aircraft Recognition and third in VFR Navigation. Eric Cagle placed third and fourth in Aircraft Recognition. Dave Hagen finished fifth in VFR Navigation and Simulator events.

The Top Pilot Award, given to the pilot who scores the most points in events was won by a margin of over thirty points by J.P. Walsh. He finished fourth in

Joint Chiefs of Staff. This tour entailed the monitoring of global crisis situations and recommending actions to the Chairman of the Joint Chiefs of Staff.

Mr. Trebbe went to the National War College Senior Officers School

Autor photo by Richard Clarke

from George Washington University.

Mr. Trebbe eventually retired from the United States Navy and soon began teaching at Embry-Riddle. Trebbe now enjoys tennis, golf, and traveling with his wife Barbara.

engine turboprop designed for use as a sophisticated enemy submarine detector. Trebbe was involved in the first deployment of this aircraft to the Adak Alaskan Islands in Alaska.

Mr. Trebbe then attended the Naval War College in Newport, R.I. After leaving the War College Trebbe was assigned as a staff advisor on a Cruiser Destroyer staff. Mr. Trebbe went on to work with an experimental squadron in Key West Florida developing anti-submarine warfare techniques. This led to a

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Avon photo by Paul Harrold

Encore . . .

Not only did the performers at last Thursday's Talent Night show a great deal of talent, but also a bit of bravery as they faced a less than full crowd. See Editorial, page 2.

Drama Society plays Simon's Suite

ERAU Press Release

Embry-Riddle's Drama Society will present Neil Simon's *California Suite* at 8:30 p.m., Nov. 20-21, in the University Center.

Ticket prices are \$2 for the general public and \$1 for University members. Tickets will be available in advance and at the door. The

doors will open at 8 p.m. both nights.

California Suite was written in the late 1960's as a sequel to Simon's *Piazza Suite* and was a huge success on the Broadway circuit in the 1976-77 season, according to Embry-Riddle Play Director, Dr. Samuel Goldstein. The play was later made into a film which featured Alan Alda and Jane Fonda.

This production will be the second

play performed by the recently formed Drama Society. The group performed the comedy-thriller *Catkill Mountain Mystery* to a standing ovation in April of 1987.

According to director Dr. Samuel Goldstein, the drama group has been rehearsing intensely four nights a week, in addition to their normal academic workload to get ready for the upcoming performance.

The drama society was chartered

at the Daytona Beach campus in November of 1986. A total of 10 of the 20 member organization will perform in the production, with several other members performing duties such as technical director, set construction, and stage lighting.

Dr. Goldstein is a Humanities professor and holds a Doctorate Degree in drama from the University of Missouri.

New safety film made by AOPA

AOPA Press Release

FREDERICK, MD -- Pilots now have an additional safety tool with the newly released film by the AOPA Air Safety Foundation on proper flying techniques in today's complex airspace system.

Entitled Flight Operations in the National Aerospace System, the 26-minute film reviews the aerospace structure and explains operations in airport traffic areas, airport radar service areas, and terminal control areas.

The new airspace film will be distributed to FAA regional accident prevention coordinators and local accident prevention specialists for use in the FAA/industry Back-to-Basics accident prevention program. A companion safety pamphlet titled Basic ATC Communication Procedures is also available.

Videocassettes of the film are available from the AOPA Air Safety Foundation in either VHS or Beta format. The cost is \$49.95 plus \$2.50 for postage and handling and can be charged to a credit card. Call the ASF toll-free at 800-638-3101 (toll call from Alaska and Maryland 301-695-2190) or write the AOPA Air Safety Foundation, 421 Aviation Way, Frederick, MD, 21701.

Technical University (North Carolina), Miami-Dade, Middle Tennessee State University, and host, Auburn University.

The Flight Team left Embry-Riddle on Tuesday, Nov. 10 and began practicing at Auburn's airport upon arrival so the pilots could familiarize themselves with

Flight Simulator, and one power-off and fourth-in power on landings. Joe Trocki won the message drop event with Greg Troutman and Paity Leon finishing fourth and eighth respectively with Mike Rapuano as their pilot.

The SCAN (Simulated Comprehensive Aeronomical

Fighting Inspection) also won VFR Navigation and Simulator events.

"I'd like to thank all of the people who helped the Flight Team get to where it is today -- from the Administrators who

See NIFA, page 3



photo courtesy of Mike Rapuano

Ready for takeoff . . .

Ground Crewmembers Greg Troutman, Steve Kidder, Crew Chief Lance Coleman, Pilot J.P. Walsh, and Joe Trock prepare Walsh's and Mike Rapuano's aircraft for power-off landings.

See the Avion this week

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Sorry, no trivia this week. You know everything anyway.

Student Forum

The Avion asks: What activities or events would you like to see at next year's homecoming.



Mike Bennett: Intercollegiate sports.



Ed Cavanaugh: I thought the concert was pretty good. I would like to see a dance and a homecoming queen.



Diego Bernate: Alumni speeches, interdepartmental displays and competitions.



Iqbal Adams: More space flight activities, such as displays or an astronaut guest speaker.



Joseph Angelo Monti: A bonfire, a (homecoming) Queen, win a date with a female DJ.



Alison Linsky: I liked the Demo jumps and the Balloon was cool.

NIFA

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Alison Linsky: I liked the Demo jumps and the Balloon was cool.

NIFA

(Continued from page 1)

gave the team support to the non-competing team members who washed airplanes. They all played a vital role in the Team's success," said Flight Team President Co-Captain Mike Riddle. "The success of the team was a result of a total University effort," he added.

Top Pilot and Team Co-Captain J.P. Walsh said, "This victory is really significant. More than any other competition, this involved a lot of sacrifice. It also broke the trend of the host school winning the

SAFECON." He felt it was significant that there were a number of new members on the team who either won or placed high in their events.

The coaches, Mason Aldrich, Sam Riddle, John Srostek, Mike Wiggins, and faculty adviser, Bill Mason were all pleased with the performance of the team. Wiggins also had praise for The Auburn Flight Team's running of the SAFECON, "They had more room available to University or the faculty adviser and the event was run almost totally

by the students.

The ERAU Flight Team will begin preparations for the NIFA National SAFECON which will be held in April in Monroe, Louisiana. ERAU will send place MTSU, third place FIT, and position fourth place Auburn will represent Region IX.

On Sunday before the teams departed they met and elected Flip Smith as Region IX vice-president with Jim Riddle remaining as secretary. Florida Institute of Technology will host next year's regional.

Students made to take 'fluency check' in Florida

"This is unfair McCarthyism," a teaching assistant who asked to remain nameless told the Alligator, the student paper at the University

"They already make us take tests, if students already (write class) assessments. To have a language monitor in the room is distracting."

dent Association (PSA) announced last week.

The PSA, executive director Greg Hull-Ryde said, is asking the students to sign a petition to help gather signatures -- even by placing "monitors" in classes -- of instructors students have trouble understanding.

TALLAHASSEE, Fla. -- Students at 9 Florida state universities will sit at a "fluency check" to make sure foreign-born grad students teaching courses speak understandable English, the Florida Stu-

dent Association (PSA) announced last week.

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Great Clips \$8

Nobody does you like we do:

\$1 OFF haircut
With ERAU I.D.
Regularly \$8

Haircuts
Perms
Men • Women
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Directors conference planned

ERAU Press Release

issues and to meet their peers from the United States and Europe.

Some of the 80 regional and resident center directors attending the conference will be brought together to represent more than 7,000 full-time and students currently enrolled in the International Campus program at 80 military and civilian centers throughout the United States.

The directors will meet November 9-13, 1987 at the Indigo Conference Center in Daytona Beach, FL, to discuss academic and administrative

issues and to meet their peers from the United States and Europe.

"Aviation consumers seek and must receive top value from their education experience. Embry-Riddle is always working to provide the very best relevant education available," said W. Williams.

Embry-Riddle is an aeronautical university that is private, independent institution with an enrollment of about 13,600 students from 40 countries and 100 states in Daytona Beach, FL, Prescott, AZ, and at many International Campus locations throughout the world.

Engen is ASF president

AOPA Press Release

Former FAA Administrator Donald D. Engen has been named president of the AOPA Air Safety Foundation. Engen, who becomes the third president of the 17-year-old foundation, expressed his intention to expand aviation safety activities.

"I am delighted that as a aviator of Don Engen's stature

he agreed to lead the AOPA Air Safety Foundation as it embarks upon a new era of safety management and research," said AOPA President Tom Baker. "Don's appointment," he said, "is a recognition of the fact that the AOPA and the AOPA Air Safety Foundation have the finest leadership of any aviation organization in the country, and Don's acceptance of his new post enhances our capabilities," said Baker. Just this past summer Baker presented Engen with the AOPA Presidential Citation in recognition of his extraordinary personal efforts, dedication and devotion to public duty on behalf of general aviation.

Ralph F. Nelson, who had been executive vice president of the Foundation, returns to Baker's staff to handle special projects for the Association.

Engen, who was the first administrator of the FAA to have been a member of the National Transportation Safety Board, will assume his new post in mid-October. A retired Navy Vice Admiral, he also has been a manufacturing executive of Paper Aircraft.

"The AOPA Air Safety Foundation will be a force for

aviation safety in the United States," said Engen. "I plan to do through the AOPA Air Safety Foundation," he said.

A naval aviator, Engen retired as a Vice Admiral in 1978, having last served as the Deputy Commander in Chief of the U.S. Atlantic Command and the U.S. Atlantic Fleet. During a 36-year career, he earned 29 decorations, including the Navy Cross, the Navy's highest award for valor. He has flown 6,000 hours in 240 different types of aircraft and holds a current commercial license with instrument and glider ratings.

"Good flying procedures prevent accidents," said Engen. "We who fly and maintain airplanes are headed in the right direction, with a constantly improving accident rate, but we can't relax. We must work harder to improve safety. That's my mandate, and that's what I plan to do through the AOPA Air Safety Foundation," he said.

As an active private aviation pilot and long-time AOPA member, Engen is well-versed in all aspects of general aviation and said he looks forward to working directly again with general aviation pilots.

"Good flying procedures prevent accidents," said Engen. "We who fly and maintain airplanes are headed in the right direction, with a constantly improving accident rate, but we can't relax. We must work harder to improve safety. That's my mandate, and that's what I plan to do through the AOPA Air Safety Foundation," he said.

A naval aviator, Engen retired as a Vice Admiral in 1978, having last served as the Deputy Commander in Chief of the U.S. Atlantic Command and the U.S. Atlantic Fleet. During a 36-year career, he earned 29 decorations, including the Navy Cross, the Navy's highest award for valor. He has flown 6,000 hours in 240 different types of aircraft and holds a current commercial license with instrument and glider ratings.



Rocking at Riddle . . .

The Atlanta Rhythm Section rocks a crowd of die-hard students during the Homecoming Festival on November 7. The turnout for the con-

cert was not quite what had been expected, but the weather was fine, the beer cold, and everyone attending the event had a good time.

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Continental jet flips over

Associated Press

DENVER — A Continental Airlines jet with 82 people aboard flipped on its back and nose down off from the airport in a violent storm Sunday and skidded along the runway, killing at least 26 people and injuring 56 more, authorities said.

Rescue work was hampered by ice and falling snow. Visibility was poor and some survivors were trapped inside the plane for up to three hours before they could be rescued, authorities at Stapleton International Airport said.

Twenty-one people who suffered only minor injuries were able to walk away from the crash, officials said.

"I remember thinking I'm going to die, this is it ... and then I wondered what it's going to feel like," said passenger Fred H. Helpensell, 56, of Nampa, Idaho. He escaped with hypothermia and an injured finger after being trapped in the fuselage for two hours.

The DC-9 Series 10 twin-engine jet, Flight 173, was carrying 77 passengers and five crew members from Denver to Boise, Idaho, according to Norm Avery, a public affairs officer at the airport.

Continental spokesman Ned Walker said the flight originated in Oklahoma City, where the crash took place shortly after 2 p.m. MST.

"It's too early to speculate on anything that could have occurred (to make the plane crash)," Walker said.

Helpensell and other passengers said the plane was airborne before the crash. "We righted ourselves, and we veered to the right," he said. "Then the left wing dropped and we veered to the left and crashed."

National Transportation Safety Board chairman James Burnett and nine Washington-based investigators will fly to Denver to investigate the crash, NTSB spokesman Ted Lopatkiewicz said.

The plane's black box, containing cockpit voice and data recorders, was recovered and being held for

the investigators, Avery said. He said 26 people had died in the crash, and the other 56 aboard were injured. Dr. Peter Pons at Denver General Hospital said three survivors were in critical condition.

The plane's pilot, Frank Zronek, 43, and first officer Lee Bruecher, 43, were killed in the crash, as was flight service officer Diana Mechling, 33, said Continental Vice President Bruce Hicks. He said flight attendant Chris Metts, 27, and Kelly Engelhardt, 35, survived.

Flight attendants used emergency lights on the runway and used electric saws to remove wreckage in a frantic effort to rescue survivors. The last bodies were not pulled from the wreckage until about seven hours after the crash.

The plane was cleared shortly after the accident, but another runway was opened and airport traffic resumed 1½ hours later.

Paul Spurgeon, division chief with the Denver Fire Department, said the plane flipped upside down on a north-south runway and skidded for over one-quarter mile before coming to a halt a quarter mile before the fire station at Stapleton.

Denver police officer John Wyckoff said the plane was in pieces, "resting on its top," and that there were "A lot of injuries, and there are fatalities lying around."

The aircraft is on its back. The cone is about 300 yards away. The aircraft is broken in half.

The fuselage split open," said Richard Bouwman, a Stapleton spokesman. He said visibility was down to one-eighth of a mile.

Randy Hargrove, an emergency medical technician, said the cockpit landed one-quarter of a mile away from the accident site. "The passengers walked with back and forth between the two looking for victims."

One survivor, Douglas Folsom of Kennewick, Wash., was found still

sitting in his seat some distance from the fuselage, said Mark Sands, a spokesman for AMI Airlines. Folsom was in fair condition at AMI-Presbyterian Hospital in Aurora, suffering from cuts and bruises.

Wyckoff said the plane went sliding off the runway, and its position was making it difficult to get survivors out. Firefighters were using "everything that they have at their disposal to open that aircraft up right now," he said.

Capt. Charles McMillan said 21 people walked away from the crash and were taken to a fire station at the airport for preliminary treatment before being taken by bus to hospitals.

People in the city ran an emergency drill with Continental Airlines just a couple of weeks ago, and he thinks that is why Sunday's rescue effort went so smoothly.

He said counselors for the injured will be available at Denver General Hospital to help family members and survivors cope with the crash. It was the airway's top priority now, trying to provide aid to the injured, he said.

As the injured walked into the hospital, one unidentified victim yelled to the waiting news media, "Hey you ghouls, do this make you happy?"

"It happened so quickly at 4:16 p.m. EST," said Federal Aviation Administration spokesman Fred Farhar in Washington.

The last major U.S. plane crash took place on Aug. 16, 1987, when a version of the DC-9, crashed on takeoff at Denver Metropolitan Airport, killing 156 people.

Snow was falling steadily in Denver most of the day, and airport authorities said earlier that visibility was low and flights were hampered by strong crosswinds. At least one-half foot of new snow had fallen by midday.

"They've been taking off all day in these conditions," said Bouwman.

He said visibility was down to one-eighth of a mile in those conditions," said Bouwman.

In the baggage handlers' work area at Miami International Airport, a sign was posted saying, "Waiting

Eastern layoffs given to workers

Associated Press

MIAMI — A union leader said Eastern Airlines is destined for ruin unless employees unite to buy out the financially struggling carrier, which has started its first wave of a planned 3,500 layoffs including 700 in Atlanta.

"Eastern Airlines can still be salvaged and restored to a world-class highly competitive and highly successful airline if it is sold to the employees," Charles Bryan, president of the Air Line Pilots Association, said Thursday.

He estimated 1,100 to 1,200 people in the 13,000-member union local were targeted for layoffs.

Bryan said an offer is still being negotiated to work with San Francisco-based Kelso Co. to find ways to keep the airline afloat.

Unions — representing machinists, pilots and flight attendants — agreed a year ago to fight for a buyout, but that effort was put on hold after a federal judge refused to stop Eastern's takeover by Texas Air Corp. in November 1986.

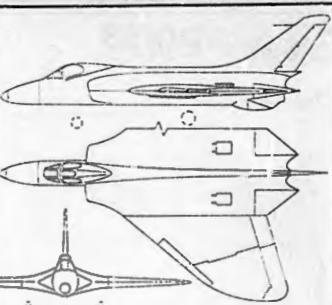
Since the takeover of Eastern, he said, Eastern's harsh management destroyed morale, brutalized people, rip off assets," Bryan charged.

Eastern employees have a proven track record as part owners, Bryan said, pointing to the record profit earned for seven consecutive months in 1985 when employees owned nearly 35 percent of the company.

"We are asking the people who hold the stock to become our allies in their own best interests," Bryan said.

A union coalition would have no problem raising money to buy Eastern, he said, acknowledging it might be more difficult to convince Eastern's top management to pressure management for a buyout.

In the baggage handlers' work area at Miami International Airport, a sign was posted saying, "Waiting



Aircraft identification

The first exact answer presented to the Avion of the identity of this aircraft will WIN 3 FREE PIZZA SLICES from SORRENTO DELI. Present your entry, with name and box #, to a staffmember in the Avion office, have them validate it with the date and time, and place it in the AERONAUTICA box. Deadline is midnight Tuesday. Previous winners, the Avion staff, and their families are not eligible.

Last week's winner was Paul Suboyu, who was the first to correctly identify the Beechcraft Model 34 Twin-Quadruplet.

The Model 34, a twenty passenger design of the fifties, was the first airplane to have its engines completely submerged in the wings and have four engines drive two propellers.

for the other shoe to drop."

The first pink slips were issued after Thursday's night shift, and most of the shelved employees took it in stride.

"How am I going to tell my wife? Maybe I'll sit her down and tell her to go to the corner for my return," said one fired maintenance worker who asked not to be identified.

Glim employees heading into work said they were watching closely to see who gets axed in the

layoffs announced Wednesday by Eastern President Phil Bakes after the carrier posted a \$67.4 million third-quarter loss.

Ninety to 95 percent of the target employees were to receive notices of termination by Friday morning, and the rest will be informed today, an Eastern official who asked not to be identified told The Miami News.

RED CROSS IN DESPERATE NEED OF VOLUNTEERS FOR BLOOD CENTER

It's time for the Avion to investigate the crash, NTSB spokesman Ted Lopatkiewicz said.

The plane's black box, containing cockpit voice and data recorders, was recovered and being held for

recovered one-quarter of a mile away from the tail section. He said rescue workers walked back and forth between the two looking for victims.

One survivor, Douglas Folsom of Kennewick, Wash., was found still

midway.

"They've been taking off all day in these conditions," said Bouwman. He said it was not unusual for the airport to continue operations in snowy weather.

to move difficult to convince Eastern to pressure management for a buyout.

At the baggage handlers' work area at Miami International Airport, a sign was posted saying, "Walking

tell her to take a letter for my resume," said one female employee who asked not to be identified.

Other employees heading into work said they were watching closely to see who gets axed in the

layoffs were to receive notices of termination by Friday morning. The rest will be informed today, an Eastern official who asked not to be identified told The Miami News.

RED CROSS IN DESPERATE NEED OF VOLUNTEERS FOR BLOOD CENTER

The Red Cross is in need of volunteers to work on Blood Drives 3 or 4 hours a week. Duties to include: Registration, Canteen Work, and Nurse Aides. Call Office of volunteers 255-5844 for more information

American Red Cross



Clubs & Organizations
You have a one day extension for articles submitted on diskette. Regular Club deadline is Tuesday at 5 P.M.



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NOVEMBER 16-20

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DOT reports on major carriers is in

**Business aircraft owners
fight airport lockout**

Associated Press

WASHINGTON - The Department of Transportation released statistical reports Tuesday on the performance of major airlines in the United States. The reports, covering only the largest carriers and others including smaller ones, concern safety, service, performance, bumping, consumer complaints, baggage problems and chronically late flights.

The reports are based on information provided by the airlines and do not include delays caused by mechanical problems.

The reports included: Percentage of flights in September arriving on time. That is defined as arriving within 15 minutes of the scheduled time.

Airline	Percent
American	94.5
Southwest	82.4
Continental	81.1
Eastern	80.4
Piedmont	80.3
Alaska	79.8
United	79.2
Trans World	78.4
Pan American	74.3
America West	73.4
Delta	72.3
Pacific Southwest	70.5
Northwest	69.0
USAir	67.1

Consumer complaints in October, per 100,000 passengers carried by the airline. The report covers a wide variety of consumer complaints, including problems with oversales, reservations and ticketing, fares, refunds, baggage handling, customer service, advertising, credit, smoking and so forth.

Airline	Complaints
Northwest	17.78
Continental	15.11
Eastern	13.25
Pan American	12.82
Trans World	9.59
Horizon	7.99
United	5.49
Midway	5.28
American Trans Air	4.76
America West	3.85
USAir	3.61
Braniff	3.29
Piedmont	3.28
American	2.98
Jet America	2.61
Delta	2.17
Alaska	2.13
Pacific Southwest	2.04
Southwest	1.52

Passenger bumped per 10,000 boardings in the first six months of this year. Bumping is defined as a passenger being involuntarily denied a seat. It does not include those who agree to give up their seats in overbooked flights in exchange for compensation.

Airline	Rate
Presidential	35.56
Aerops	17.67
Pan American	17.24
America West	13.95
El Al	11.75
Air California	11.56
Western	9.78
Horizon	9.31
Mai Tai	8.33
Continental	7.91
Transair	6.81
Piedmont	6.14
Trans World	6.00
Jet America	5.62
Aloha	5.51
United	5.05
Northeast	4.78
USAir	3.99
Eastern	3.75
Braniff	2.12
Pacific Southwest	1.02
Midway	1.48
Delta	1.30

Complaints of lost and mishandled baggage received by airlines in September, shown as the number of complaints per 1,000 passengers on the airline.

Department officials cautioned that these figures may not be comparable from airline to airline because of differing methods of reporting. For example, some airlines count in their complaint data courtesy trunks, in which they seek to help people from other airlines find lost baggage. In addition, reporting methods vary for problems with carry-on baggage and late arriving passengers.

Airline	Complaints
Northwest	13.06
United	10.77
Alaska	9.84
American	8.23
America West	8.19
Continental	7.34
Trans World	7.05
Delta	6.98
Piedmont	6.51
Eastern	6.30
USAir	5.94
Pacific Southwest	5.59
Southwest	5.39
Pan American	4.12
	4.06

Associated Press

PHOENIX - Companies that fly aircraft on business will fight any attempt to lock them out of some of the nation's major airports, according to the president of the National Business Aircraft Association.

Jonathan Howe said Thursday that a growing number of airports are talking about barring recreational and business aircraft in order to serve only scheduled airliners.

"They want to be able to go where you want, when you want," Howe said. "It's a real survival issue for business aviation."

Howe's organization, based in Washington, D.C., represents about 4,000 companies and subsidiaries operating more than 5,000 aircraft.

Airports in Boston, Denver, New York City, San Francisco and St. Louis, among others, have expressed interest in restricting or banning general-aviation traffic to try to control capacity, he said.

Phoenix Sky Harbor International Airport, the nation's 20th-busiest, serves general-aviation users, but often has sought to encourage more use of two outlying airports under Phoenix's control, Deer Valley and Goodyear.

Efforts by major airports, which receive federal funds, to restrict or ban general aviation unfairly discriminate, Howe said.

On This Day In Aviation History

1922 -- The first prototype French Dewoitine D 1 parasol-wing fighter is flown. D 1's are later used by the French Navy from the aircraft carrier Bearn, and by the air forces of Italy, Yugoslavia, and Switzerland.

1939 -- The improved model B of Bell's XP-39 makes its first flight. It went into production as the P-39 Airacobra, and was different in that its engine was mounted in the aft fuselage, behind the pilot.

1949 -- A C-74 Globemaster of the U.S. Air Force makes a non-stop flight across the Atlantic, from the U.S. to Britain, with 103 passengers and crew, which is then the largest number of people carried across the North Atlantic in a single flight.

1964 -- The first of three prototype Grumman C-2A's makes its first flight. The C-2 is used by the Navy as a carrier-on-board delivery aircraft.

1967 -- The first European variable-geometry "swing" wing aircraft, the Dassault Mirage G prototype, makes its first flight at Istres, France.

1978 -- The McDonnell Douglas F/A 18 Hornet prototype makes its first flight.

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Notices

SPRING GRADUATES

STUDENTS ANTICIPATING SPRING '88 GRADUATION—We suggest that you fill out your graduation application as soon as possible in order to get a "Preliminary Graduation Evaluation". This will help make your completion a smooth one.

DECEMBER GRADUATES WITH NDSL/PERKINS LOANS MANDATORY MEETING

If you are a December graduate who was awarded a National Direct or Perkins Student Loan as part of your financial aid package while a student at ERAU, you should be reminded that this is a Federal Loan repayable to Embry-Riddle.

Information regarding the payment of this loan will be available to you the week of Dec. 1, 1987. Mandatory Exit Interview Sessions will be held (by appointment only) in the Riddle Theater located in a Bldg. Room 101. Scheduled dates and times are listed below:

Wednesday Dec. 2, 10 a.m. to 10:30 a.m.
or 10:30 a.m. to 11 a.m.
or 3 p.m. to 3:30 p.m.
or 4 p.m. to 4:30 p.m.

Thursday Dec. 3, 4 p.m. to 4:30 p.m.
or 4:30 p.m. to 5 p.m.

It is very important that you attend one of these meetings to obtain valuable information concerning repayment of your NDSL/Perkins student loan.

Please check your ERAU box for further information and pertinent documentation. Additionally, contact Barbara Simone, University Collections, ext. 6230 to either schedule an appointment for one of the above sessions, or if you have any questions regarding the Exit Interview process.

SIGN UP FOR JOURNALISM

HU 350
Meets Tuesday and Thursday at 1:30 p.m. 3 credits by registering with Dept. Humanities Chairman before registration or see Prof. Osterholm.

LIBRARY HOURS—THANKSGIVING HOLIDAYS

Wed. 11/25 OPEN 7:30 a.m. - 5:00 p.m.
Thurs. 11/26 CLOSED
Fri. 11/27 CLOSED
Sat. 11/28 Regular hours 9:00 a.m. - 6:00 p.m.

F.A.A WRITTEN EXAMS

Embry-Riddle will administer FAA Pilot and/or Instructor Written Exams/evaluations for the following:

1. (PA) PRIVATE PILOT-Airplane
2. (CA) COMMERCIAL PILOT-Airplane
3. (FIA) FLIGHT INSTRUCTION-Airplane
4. (POI) FUNDAMENTALS OF INSTRUC-T-Fit. & Ground Instruction
5. (BGI) FUNDAMENTALS OF INSTRUCTIN-Basic
6. (AGI) FUNDAMENTALS OF INSTRUCTING-Advanced
7. (ATP) AIRLINE TRANSPORT PILOT-Airplane (FAA Part 121)
8. (ADX) AIRCRAFT DISPATCHER
9. (ATA) AIRLINE TRANSPORT PILOT-ATP Airplane (FAA 135)
10. (IRX) INSTRUMENT RATING-INSTRUMENT Pilot Airplane
11. (FII) FLIGHT INSTRUMENT-Rating-Flight Instructor-Airplane
12. (IGI) INSTRUMENT RATING-Flight Instructor-Instrument
13. (FED) FLIGHT ENGINEER-Basic
14. (FEU) FLIGHT ENGINEER-Turbojet
15. (FEX) FLIGHT ENGINEER-Turbojet/Basic

November 21 Saturday, 8:30 a.m. - H-113, GRW Complex

Students intending to take an FAA Pilot Written Examination are required to sign up in Office D-200 or call extension 6800 prior to examination day.

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

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

COMPUTER LAB SCHEDULE (THANKSGIVING)

The PC Lab located in C-409 and the one in A-207 will closed both Thanksgiving day (Nov 26) and Friday (Nov 27). They will reopen for normal operating hours on Sat. (Nov 28).

The IBM 4361 Lab will close about 11 p.m. on the 25 and reopen about 6 p.m. on Friday the 27.

PARTICIPATION IN GRADUATION CEREMONY

In accordance with University policy as stated in the Graduation Requirements section of the Embry-Riddle Aeronautical University Catalog, effective immediately all students will be required to have successfully completed all of the required courses and fulfill all obligations before they will be allowed to participate in graduation ceremonies. This includes all degree required flight courses. A student's last flight course must be completed prior to the date and time a senior grades are due in the Office of Registration and Records in order for that student to participate in that graduation ceremony. Students completing any required course (flight or academic) after that time will be eligible to participate in the next graduation ceremony.

Community Calendar

November

- 1-31 Daytona Beach Jai Alai - 255-0222
4-31 Exhibit: Living In A Bathing Suit, by French Photographers - Museum of Arts and Sciences - 255-0285
1-21 Master Artists In Residence, Fact and Fiction - Atlantic Center for the Arts - 427-6975
6-30 Exhibit: Colleges, Mixed Media and Ceramic Sculpture - Ormond Beach Memorial Art Gallery
27-29 Birthplace of Speed Celebration - Ormond Beach Municipal Airport - 677-0327
27-29 Antique Street Rod and Custom Auto Show - Ormond Beach - 677-0327
27-29 National Junior Super Bowl - Memorial Stadium - 255-0415
27-28 Holiday Showcase Arts and Crafts Show - Ormond Beach Activity Building - 10 a.m.-4 p.m. - 677-0327

December

- 1-31 Exhibit: Oh, You Beautiful Doll - Dolls, Furniture and Accessories - Museum of Arts and Sciences - 255-0285
1-31 Exhibit: Christmas Show - Ormond Beach Memorial Art Gallery
2 Christmas Showcase - Volusia County Fairgrounds Agricultural Auditorium - 9 a.m.-3 p.m. - 257-6000, Ext. 2278

EAGLE FLIGHT CENTER

HOLIDAYS

Wed. 11/25 OPEN 7:30 a.m. - 5:00 p.m.
Thurs. 11/26 CLOSED
Friday 11/27 CLOSED
Sat. 11/28 Regular hours 9:00 a.m. - 6:00 p.m.

Thanksgiving day (Nov 26) and Friday (Nov 27). They will reopen for normal operating hours on Sat. (Nov 28).

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2 Christmas Showcase - Volusia County Fairgrounds Agricultural Auditorium - 9 a.m.-3 p.m. - 257-6000, Ext. 2278

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C152 IFR (3)	\$33.00
C152 Aerobat	\$33.00
C172 IFR (6)	\$44.00
C172 RG (IFR)	\$55.00
Warriors (2) (IFR)	\$47.00
Super Decathlon	\$49.00
Arrow (IFR) (Air Conditioned)	\$59.00
Mooney (Loaded, IFR)	\$59.00
Saratoga SP (Loaded)	\$90.00
Seminole (Twins) (2)	\$110.00
Seaplane (Lake Buccaneer) (Dual)	\$149.00
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Student press caught in political storm 'Conspiracy' blamed for hazing

By Mike O'Keefe

Three weeks ago, elusive U.S. Secretary of Education William Bennett, who ostensibly doesn't talk to the student press or even college students about anything, agreed to write for, of all things, a handful of student newspapers.

The apparent reason: it will be for avowedly conservative newspapers — not ones that share Bennett's political views.

It's another sign, various campus newspaper observers say, of how college journalism is changing under the influence of conservative and liberal group money, cheaper technology and campus political ferment.

If nothing else, there are now more papers on a campus from which students can choose, and "traditional" student papers regularly are drawing competition from stridently political journals on both sides of the spectrum.

"It's becoming easier to start publications," said Mark Goodman of the Student Press Law Center, which advises college newspapers on legal issues.

Computers, he noted, have made starting a paper simple while universities are ripe for new publications because of their low expenses.

"They're fairly effective. But I don't see them polarizing the traditional student press."

Since 1980, a New York group called the Institute for Educational Affairs (IEA) has provided money and expertise to launch 70 conservative and liberal campus papers, largely in response to the IEA's efforts, President Les Lenkowsky reported.

On the other side of the spectrum, a Washington think tank called the Center for National Policy started funneling money to help start a variety of liberal campus papers, largely in response to the IEA's efforts, Lenkowsky said.

But already left-wing the Na-

tional Student News Service (NSNS) began in Boston last Jan-

uary with some financial help from the Public Interest Research Group

(PIRG), a consumer advocacy group founded by Ralph Nader.

NSNS editor Bruce Allon, while conceding the PIRG had a role and that it concentrates on covering "student activism," insisted NSNS is "nonpartisan" and reports both liberal and conservative group activi-

ties in an "in-depth, nonpartisan" way.

"They're not substantially changing the political balance of the campus press," said Tom Rolnicki, the executive director of the Associated Collegiate Press. "They are giving an opportunity for a small minority to be heard. It's a healthy sign that that kind of diversity exists."

Conservative papers have been the most active. Dartmouth, Georgetown, Iowa, Texas and Cornell all have typically long-lasting papers, while others tend to fade after IEA funding stops.

The nature of these papers is "here today, gone tomorrow," as the various players graduate, lose interest or run into financial difficulty.

At the Massachusetts Journalist Prof. William Cunningham to investigate hazing, alcohol abuse and disruptive behavior among pledges.

"We feel the campus press has been politicized for some time, since the late '60s. The campus press has moved to the left. Some students think another voice should be heard."

Rolnicki conceded, "The charges of liberal bias are probably true.

College students tend to be more liberal across the board. Student support for Ronald Reagan in the 1980 and 1984 elections had more to do with his personality than politics."

Both left and right forces claim "traditional" campus papers ignore them.

"Our students don't see the traditional student press representing their interests or their point of view," explained Kirk O'Dell of the Center for National Policy.

CNP and the Washington D.C. think tank that has helped fund newspaper start-ups at Harvard, Boston University, George Washington, Texas, North Carolina and 22 other campuses.

On the right, Lenkowsky said, "They are an effort to offer alternative voices."

"We feel the campus press has been politicized for some time, since the late '60s. The campus press has moved to the left. Some students think another voice should be heard."

Rolnicki conceded, "The charges of liberal bias are probably true. College students tend to be more liberal across the board. Student support for Ronald Reagan in the 1980 and 1984 elections had more to do with his personality than politics."

Not everybody agrees.

Potella says the mainstream student press has become more conservative, condensing papers no longer mention controversial, adversarial relationships with school administrators.

"Even in the editorial pages," the CNP's Julie Goetz maintained, traditional student "newspapers don't deal with issues in an in-depth way. There was a vacuum, but these publications allow more expansive coverage."

The traditional student press, said Potella, can't accommodate every student perspective. "That's too much to ask."

But O'Dell argued the mainstream student press must be consistent with the rest of the political press.

He said, "It will invigorate and challenge the campus and the student paper. They'll promote political dialogue on campus. The problem with students is they lack a political point of view."

By College Press Service

AUSTIN, TX — The University of Texas just can't break down a "conspiracy of silence" among greek pledges long enough to curb hazing on the campus, an 11-page report issued Oct. 20 stated.

The 11-page report, titled "Hazing in Interfraternity Fraternities,"

Harry Cline, was killed when he fell down a flight of stairs at the Kappa Alpha house. He allegedly had been drinking, despite a campus ban on drinking, and UM officials are investigating.

Duke put its Sigma Chi chapter on probation, while University of Maryland officials announced they may install more rigid rules to regulate off-campus greek parties.

Also this fall, Penn State disbanded its Alpha Phi Alpha chapter for violating a campus ban on alcohol poisoning, a hazing incident in 1986.

UT honored the fraternity after the Seeger tragedy, but last week's report asserted stopping hazing in a greek house may be impossible.

The report cited 2 fraternities, the Texas Cowboys and the Silver Spurs, for continuing hazing despite repeated suspensions.

Pledges were taken for "rides" — driven far from home, then abandoned — the report said. Initiates also were shocked with electric cattle prods and beaten with paddles.

"As long as the university fails to elect to honor those done to themselves and want to maintain this secrecy, there's not a whole lot the university can do," Radliff said.

The commission said the Cowboys and the Spurs should not be allowed to represent the school at football games and other official events.

SRB attends student hunger conference at Harvard

By Yomi Bakare and Job Snel
Student Government Association

The Student Representative Board (SRB) has recognized the importance of the hunger problem. On October 23-25, 1987, the first National Student Conference of Hunger was held at Harvard University. Job Snel, a junior in Aero. Science, was appointed by the SRB to represent Embry-Riddle. The conference dealt with hunger issues by means of lectures and various workshops. Over 170 students representing 62 colleges and universities participated.

Our representative had the opportunity to meet with students who were involved in fighting hunger through "hunger committees" at their schools. The SRB wished to set up a permanent committee at Embry-Riddle named the ERAU Student Campaign Against Hunger Committee. The purposes of the committee are to: 1) raise student awareness of the national and international hunger problem and 2) organize projects that will help fight hunger.

Consider these facts:

1) The world produces enough food to provide every man, woman and child 3000 calories a day, yet 25 percent die each minute as a result of hunger.

2) As many as 20 million Americans are going hungry; over 10 million are children.

3) At the price of 2 nuclear aircraft carriers, hunger can be eliminated in America.

The committee would like to organize a Christmas food collection for the needy in Daytona during early December. In the spring, things will really be picking up. The major project, called The Hunger Clean-up, will

be organized. Also, a World Hunger Recognition day, on which students will fast and donate the money that would otherwise have been used for food, will be scheduled.

The Hunger Clean-up was started in 1983 by students at nine colleges in Grand Rapids, Michigan. The idea behind the Hunger Clean-up is to get students to volunteer three hours of their time to complete various work projects in their communities, such as painting a soup kitchen or helping out at a soup kitchen, or a local income tax project, cleaning up a local park, etc.

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This past April, 4200 students from 119 campuses completed hundreds of work projects and raised over \$50,000. This spring semester the national Hunger Clean-up will involve even more schools and raise even more money.

The ERAU Embry Riddle will be part of this nationwide project. To get started the committee needs members who are willing to commit some time and effort into putting ideas into action. If you are interested please leave a note in BOX #160 (Job Snel) or drop in at the SGA office and talk to Yomi Bakare. As soon as a list of interested people is compiled a meeting will be set up to get things going. Remember you can make a difference.

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What's Happening

By Brian Moseid
Sports Editor

SPORTS EDITOR . . . The Avian is looking for someone to assume the role of Sports Editor. The position will be vacated at the end of this Fall term. Responsibilities entail coverage and layout of intercollegiate, intramural, and professional sporting events. The job demands a big time commitment, but has rewarding benefits as well. Contact Brian in the Avian office.

BASKETBALL CLUB MEETING

The Basketball Club will be having a general organizational meeting on Friday Nov. 20 at 6:00pm in the F.S.L. Entrance into local men's league and intercollegiate competition will be discussed. All are welcome and encouraged to attend.

SOCCER CLUB MEETING

This Friday there will be a meeting of the Soccer Club at 2:30pm. The classroom has not been finalized. Please see the notice in the glass sports case for location. The case is on the right hand side just after entering the U.C. from the front entrance. We will be finalizing details of the upcoming clinic. The club will also be discussing plans to order equipment and t-shirts.

SOCCER CLINIC . . . Saturday, December 5, the Embry-Riddle Eagles will be welcoming soccer players from the area for a soccer clinic here at ERAU. Instruction will be broken into age and skill levels. Beginning, novice and advanced players from ages 5 and up can receive soccer instruction both on the playing field and in the classroom; then enjoy an afternoon barbecue. The clinic will begin at 10am and end at 4pm. The registration fee is \$10.00. The deadline is December 2. To register, call Brian at 767-7236.

ORLANDO LIONS . . . F.C.O., a professional soccer team based in Orlando will be taking on the Embry-Riddle Eagles on December 12 in Orlando. The outcome of this match will tell a great deal about how good the Eagles really are.

FUZZY NAVELS OFFENDED . . . In the Fall of 1986, the Fuzzy Navel Boys won the Volleyball Tournament, losing only one set. With regards to the Icaros Dynasty, it was not stated that Icaros has won every Volleyball/Wallyball tournament played in the past four years, but that Icaros has taken a title every year, and most times all titles.

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THE SOUNDS OF THE ISLANDS
REGGAE AT ITS BEST
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Intramural Sports

Soccer

6 on 6

November 8, 1987

	November 15, 1987
Icaros II	9
Sky Hawks	9
Icaros I	4
Sky Hawks	2
Icaros II	3
Six Tired Men	2
Waszobla	2
Killers	2
Six Tired Men	1
Killers	2

Basketball

Finals

Brothers of the Wind I . . . 20

A.I.A.A. . . . 10

Hawks 20

Forest Lakes 14



Football

November 8, 1987

Delta Chi	6
Grin Reapers	2
Bush Boys	6
Sigma Pi	2
Air Force	W
Predators	F
Force	0
Tam Rho	26
Gators	7
Sigma Chi	21
Team Rho	26
Delta Chi	6
Quechers	7
Bush Boys	6
Brothers of the Wind I	26
Sigma Chi	6
Rough Riders	33
Air Force	6

Bad Company	def.
Skinny Puppies	16-14, 10-15, 15-12
Mass Confusion	def.
Buzzin Dosen	12-15, 15-12, 15-7
Little Rascals	def.
Aviators	15-9, 15-4
Procrastinators	def.
Delta Chi	15-19, 15-12

Skullies	def.
Bananas	15-11, 15-12
Laxatives	def.
Sigma Chi	15-6, 15-3
Quechers	def.
Brothers of the Wind I	26
Sigma Chi	6
Rough Riders	33
Air Force	6

Seafarers	def.
Gators	7
Sigma Chi	21
Team Rho	26
Delta Chi	6
Quechers	7
Brothers of the Wind I	26
Sigma Chi	6
Rough Riders	33
Quechers	0

Quechers	def.
Brothers of the Wind I	0
Sigma Chi	6
Rough Riders	33
Quechers	0

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Homecoming lacking due to student apathy

By Chip Zodrow
Space Technology Editor

Being the Space Technology Editor for the Avion, I am on the editorial board, and I am usually involved in the writing of the editorials. However I would like it known that I have a contrasting opinion with the editorial in last week's Avion, (*Homecoming needs good planning to be successful festival*)

While not directly being on the Homecoming committee, I was involved in the planning of the activities and events for the festival. I also attended the Homecoming concerts, the Voyager lecture, the soccer game, and even flew my hot air balloon in front of the library for the opening of the whole festival.

It should be known that the committee was pressed for time to fully accomplish all the necessary planning. The editorial states that it was not made as good as it could have been due to this hindrance. It also states that "due to a lack of promotion, this year's event was a disappointing failure, compared to Ridle's high standard of experience." Well that's crazy! There were posters and banners set up well in advance, a schedule listing the events was published in the Avion for two weeks preceding the event, and flyers were sent to faculty, staff, and student mailboxes. Maybe there were too many posters, and people overlooked them, but it all seems to come down to the real disappointing factor in the festival, student apathy.

My balloon and the Voyager lecture had excellent turnouts, but the barbecue and the concerts on Sat. were disappointingly lacking people. Maybe the weather for the barbecue was not all that great and it was sponsored by the bad named Eclipse, but our co-founder was the speaker. Let's see some school spirit here people.

Then comes the subject of the concerts. Saturday's weather was nice, the admission was free, there was beer, (a little expensive), and there was everything else needed to set the atmosphere for a giant party. So, where was everyone? Even with the domes a few hundred yards away, the students were not showing up.

The bands could have been a little better. Maybe more money could have been spent on one big named band than on two mediocre bands. Other than that, I did not really see any real problems with the events. One has to remember that this event was a first. Excellence comes with experience. Give the committee a few years to really get this going. It should also be known that planning for next year's event has already begun.

Hopefully with a little more advanced notice and the involvement of the 5,000 students at this university, we can all spend our Student Government Association fees together.

ACET does canard study

By Michael Fried
Avion Staff Reporter

In October a study was done to evaluate close-coupling a canard on the wing. The study was done by Joe Martin and Ned Foster, Joe Martin is an Associate Professor of Aircraft Engineering here at Embry-Riddle.

The canard was used 84 years ago on the first Wright brothers powered aircraft. Today, aircraft considered to be using the close coupled canard include the U.S./Israel Lavi, the French Rafale, and the European fighter aircraft (I.F.A.) and the X-29.

There were two purposes of the

study. The first was to create a proof-of-concept vehicle designed to satisfy the need of modern canards. Secondly, they needed to demonstrate a subsonic, close-coupled canard technology.

Two models were used in wind tunnel testing, the first was a 1/20 scale model which was used in a laminar flow smoke tunnel. The second was a 1/10 scale which had yarn tufts attached to the wing. The wind tunnel provided data on transonic flow, lift distributions, and surface flow separations.

Flight testing will start in the Spring of 1988 with research flight testing to begin in late 1988.

NASA is set for the test of the space shuttle crew escape system

National Aeronautics
and Space Administration

Two concepts to provide crew egress capability during Space Shuttle controlled gliding flight are being tested this month at the Naval Air Warfare Center.

The two escape methods are tracor rockets that would extract the astronauts through the open hatch and a telescoping pole that would extend through the hatch for the crew members to slide down using a lanyard attached to the rod.

Tracor rocket testing will begin Nov. 19, 1987. A series of 12 tracor rocket tests will be conducted using life-like dummies that will be pulled from a Convair-240 aircraft modified to simulate the hatch opening of an orbiter.

The first six tests will be developmental tests conducted approximately 2 weeks apart, and results of each test will be thoroughly analyzed so modifications can be made prior to the next test if necessary. After the six developmental tests, there will be two design verification tests. The last four tests will use

dummies that are fully qualified with Space Shuttle gear and equipment for the certification tests.

"Objectives of the tests are to establish performance margins and to certify the tracor rocket system for flight," Robert R. Rice, manager of the Tracor Rocket Program, said.

Telescoping pole tests are scheduled to begin Nov. 30, 1987. There will be a total of 14 tests. The pole concept will be tested using voluntary Navy parachutists to slide along the rod extending from a Buffalo aircraft and then later from a C-141 aircraft.

The jumpers will attach a lanyard to the pole, exit the aircraft in a tucked position, release at the end of the pole and parachute to the ground. Objectives of the test are to validate the performance of this concept and to determine the margins on orbiter wing clearances.

After completion of the two test programs, data will be evaluated and presentations will be made to NSTS managers who will make a decision as to which test is more effective.

After the next test, the evaluation period will allow the addition of either system prior to STS-26.

Come see the

25th Space Congress

April 26 through April 29, 1988
Cocoa Beach, Fla.

Topics include:

Return to space; space station; commercial space enterprises; mission to Mars; robotics; lunar base development; launch vehicles of the future and artificial intelligence applications

For registration information on the 25th Space Congress stop in the Avion office and ask for Chip Zodrow.

Shuttle boosters tested

By Chip Zodrow
Space Technology Editor

To continue in the testing of the redesigned solid rocket boosters for the Space Shuttle, a successful test of the solid rocket encountered by a series of transient pressure transients (TPTA) was conducted last week.

The TPTA is a short-stack solid rocket motor consisting of three cast motor case segments which form two redesigned field joints, and a redesigned case-to-nozzle joint.

The 0.6 second test firings are to evaluate the effect of ignition pressures on the redesigned Space Shuttle solid rocket motor segments.

Wyle Laboratories conducted the test for Marshall, which manages the solid rocket motor program for NASA. Morton Thiokol, NASA's prime contractor for the motor, provided the test article.

The transient pressure transients is 52 feet long and 12 feet in diameter. It underwent 0.6 of a second firing in a vertical configuration. The test to evaluate the effects of pressure transients and external loads encountered by the solid rocket motor during ignition. The TPTA tests also provided data to verify the scaling capability of the redesigned SRM field and case-to-nozzle joints.

Upon ignition, dynamic strut loads are applied to the motor from a series of actuators.

The test simulates the load from the Shuttle's external tank attached at the base of the motor.

The TPTA test program will consist of 10 test firings of which will be conducted prior to the Space Shuttle's next flight.



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Avoid Daytona's ARSA, fly unrestricted at Ormond Beach!

Build your flight time inexpensively

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Known that planning for next year's event has already begun.

Hopefully with a little more advanced notice and the involvement of the 5,000 students at this university, we can all spend our Student Government Association fees together.

Each test will be thoroughly analyzed and can be modified to the next test if necessary. After the six developmental tests, there will be two design verification tests. The last four tests will use

passengers who will make a decision each year on which of the two concepts to incorporate into Discovery. This test and evaluation period will allow the addition of either system prior to STS-26.

Wyle Laboratories and the test for Marshall, which manages the solid rocket motor program for NASA. Morton Thiokol, NASA's prime contractor for the motor, provided the test article.

uses the remainder of the Shuttle elements on the launch pad.

The TPTA test program will consist of 10 test firings of which will be conducted prior to the Space Shuttle's next flight.

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Bloom County



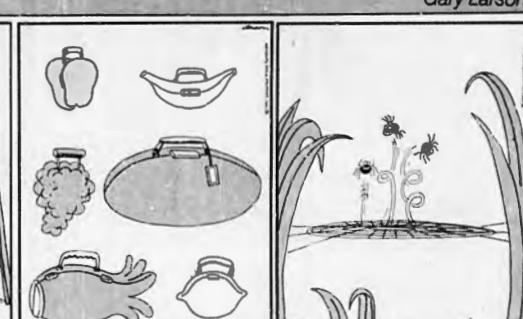
Berke Breathed



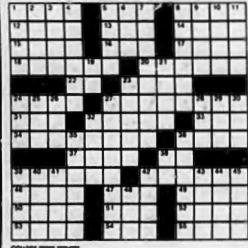
Military Mirth



Gary Larson



The Puzzle

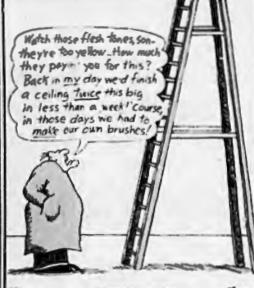


COURTESY RENE RIVINS

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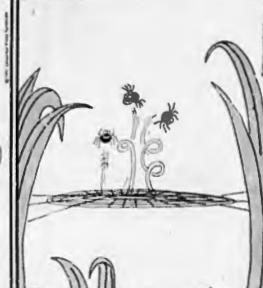
The Far Side



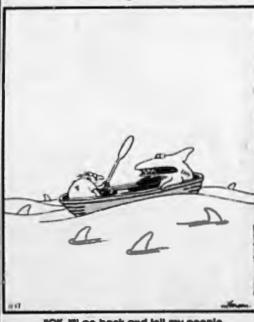
Michelangelo's father:



Fruitcases



On the weboline



"OK, I'll go back and tell my people that you're staying in the boat, but I warn you they're not going to like it!"



Bennie's sense of humor was seldom appreciated among the other bears.



At first, the crew could hear only the crashing of oars. And then, out of the fog, the ghost dingly appeared.

See SOLUTION, page 11

Women buy more condoms than men

College Press Service

Women students reportedly are a lot more interested in the campus condom craze than men, various sources say.

The University of Nebraska at Omaha's health center, for example, has sold only 12 condoms since August, and all have been to women, said store Supervisor Ruth Hanon.

About 65 percent of all the condoms being sold are purchased by women, added Margaret Whited Scarborough, of Denver's Westend Corp., which makes condom machines or services.

Nebraska's Hanon "really didn't expect anyone to come in and ask for condoms," she said, adding that the store has become so popular in a waiting room, and telling the receptionist what was wanted.

"Women," she said, "usually take the responsibility for sexual activity,

though freshman Eugene Mayer said as many as half the rubbers given away at his sessions were taken by men, too.

"That shocked me," Mayer said. "I thought it was just something for men."

At the University of British Columbia, "eladiates" threw an estimated 10,000 condoms from a truck outfitted to look like the Trojan horse to campus passerby, who responded with mixed layers of awe and revulsion.

Otherwise, however, there still seems to keep many students from taking advantage of campus condom machines or services.

Nebraska's Hanon "really didn't expect anyone to come in and ask for condoms," she said, adding that the store has become so popular in a waiting room, and telling the receptionist what was wanted.

"Women," she said, "usually take the responsibility for sexual activity,

whether it's birth control or keeping themselves safe. Women take AIDS more seriously than men."

"Fifty-five percent of the people who use the University of Florida's Protection Connection, which sells live condoms to buyers down in plain brown bags, are women, we're told," said Scott Bluestein, a partner in the business.

Still another Protection Connection, offering a similar service, has franchises at 10 campuses in Virginia, Texas and California.

The Mercury Protection Service, founded by University of New Mexico students, also delivers, though only on weekends.

Protest at the University of California-Davis delivered pamphlets about sexually communicable diseases along with condoms and contraceptive sponges, and has spawned

branches as far away as Purdue and Penn State.

Such services were frowned on at a short time ago.

In 1985, Harvard kicked a condom-delivery service called SpermBuster off campus, and officials said, it was "inappropriate." The private business, owned by 2 students, quickly died.

In 1986, University of Texas administrators similarly kept a student-owned service off the Austin campus.

It's probably too early to say how long the current crop of condom dealers and vending machines will last, sponsors say, but they remain hopeful.

"It's a new trend (condoms are) available," noted U. New Mexico student Steve Gray, "the more careful people will be, if there's anonymity, people will buy them."

FLASH

For Leisure And Student Health



By Maureen Bridger, R.N.
Director, Health Services

turning to Daytona, we then share close quarters and air space with everyone else who is incubating the illness and so, with the yearly cycle of disease, dismiss it and re-infection.

There is a bright note to this article because there are several measures we can take to prevent fever, at least lessen the severity of its symptoms. Frequent and careful handwashing has been determined as a positive deterrent to the spread of disease.

Keeping the humidity high in one's bedroom room protects the respiratory passage from viral invasion. Good health habits—proper rest and exercise, nutritious diet, high fluid intake (juice, water), stress reduction and quitting smoking—strengthens the body's immune system.

Finally, November is the month to get your flu shot, because the vaccine must be in the body several weeks in order to form antibodies against future infection. The Volusia County Health Department, which usually administers the vaccine on a walk-in basis, has had to limit its hours due to high demand. However, the Health Services staff will be glad to arrange for students and employees to get a flu shot at the University Physician's office—visit us in the phone extension 6036. Have a happy, safe and healthy holiday season!

Rock blamed for closed minds

By Mike O'Keefe
College Press Service

It's only rock 'n' roll, says best-selling author Allan Bloom, and he doesn't like it.

In fact, the University of Chicago professor believes rock music—and other forms of popular culture—are closing the American mind.

Other educators, however, say Bloom's argument smacks of elitism, sexism and racism. "His shot at rock 'n' roll is ludicrous," said University of Oklahoma English professor David Gross. "It's

his own fault that he closed out."

Bloom's "The Closing of the American Mind," a nationwide best-seller for more than two months, has sparked considerable debate about the role of higher education in America that has been failing to keep up with the demands of society. Bloom's book argues that higher education is failing because curricula no longer emphasize classical Western cultural studies.

Popular culture, Bloom writes, has made Americans intellectually lazy and inept.

Bloom describes a typical rock fan as "a pubescent child whose body throbs with orgasmic rhythms;

whose feelings are made articulate through hyperventilation, the joys of orgasm or the killing of parents whose ambition is to win fame and wealth in imitating the drag queen who makes music."

The sentiment doesn't sit well in some places.

A sign in Bowling Green State University's (OhiO) popular culture department offices reflects Allan Bloom will burn in hell.

Bloom would have "a small elite group of people define what is of value and ram it down people's throats," said Bowling Green pop culture professor Jack Nachbar.

Popular culture studies are offered at Bowling Green, said Nachbar, to help students learn their own "cultural literacy." "We provide a means for students, a way to understand their environment and to help them think critically."

Bloom also attacks academics for being "relativistic," causing them to lose credibility without implying absolute values. Young people view any idea as just as good as any other, Bloom argues. As a society, we should apply an absolute stan-

See ROCK, page 14

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ROCK

(Continued from page 12)

stand to all ideas, philosophies and teachings, he says.

"He sees it (religion) as a wonderful thing," said Blooms. "When you disregard relativism there's open yourself up to academic fascism."

"He puts down pluralism so easily," said Gross, who lectures on rock and roll history at Oklahoma. "He calls it 'the lie' about THE TRUTH. But wisdom is not merely self-contained platitude from Plato. It's ridiculous to say that everything you need to know about truth and wisdom is contained in a few books."

"Blooms assumes the achievements of the white, male, Western tradition are the only ones we need," Gross added. "That's racist in practice."

Nachbar agrees Blooms's argue-

ments smack of racism and sexism, but points out that it's unintentional.

His worship of Plato, Shakespeare and Beethoven, Nachbar said, reflects a "more male-dominated effort to exclude female and non-white male artists and philosophers."

Although Blooms decries popular culture as brain candy, Gross says rock, popular movies and other media can also have value. "Rock and roll, like Dickens, has an appeal to the masses, but it can also engage the soul on very important issues."

The majority of rock is mindless entertainment, but the best stuff can move people.

"Bring it Springs - on every single album there's a raw energy there as well as an extremely thoughtful introspection," Gross asserted, citing songs such as "The

River," "My Father's House," and "Darkness on the Edge of Town."

"That line from 'The River,' is a dream a lie if it don't come true," Las direct connects to the work of Langston Hughes and Eccles-

stein," Gross asserted.

Nachbar said pop artists won't replace Beethoven and Plato as cultural icons, and it's irrelevant to analyze them in such terms. "I've sampled a lot of music," argued Gross, however, predicting Bob Dylan and the movie "Casablanca" will be viewed reverentially by future genera-

tions.

Many of Blooms's icons, such as Shakespeare, wrote for mass audiences, Nachbar said. "In fact, he was condemned during his life by the elite because he didn't have a college education."

CFI of the Year named

GAMA Press Release *

WASHINGTON, D.C., October 14, 1987—The Federal Aviation Administration (FAA) and the general aviation industry today announced the 1987 Certified Flight Instructor (CFI) of the Year, Ms. Jane Beverly Bonestel of Phoenix, Arizona, and the 1987 Maintenance Technician of the Year, Mr. Lenny Skunberg of Salmon, Idaho. The award winners were honored in a ceremony at the FAA attended by Administrator T. Allan McArtor and representatives of the general aviation industry.

The CFI Award is presented to an instructor who has demonstrated superior performance in his/her field. The Maintenance Technician Award recognizes the important role maintenance technicians play in aviation safety and in the promotion of aviation technology.

The people we are honoring today represent excellence in their re-

specive professions in aviation and we know we cannot settle for anything less than excellence in safety, in security, in service," said McArtor.

The key to aviation safety is a well-trained pilot operating a well-maintained aircraft. It is a pleasure to recognize these two professionals for their significant contributions to aircraft maintenance safety," said Dr. John K. Leader of the National Transportation Safety Board (NTSB), keynote speaker at a luncheon also held in honor of the award recipients.

Ms. Bonestel has 20 years experience and has flown over 9000 hours. (TOMORROW'S AVIATOR) She was as a flight instructor. Her dedication to safety led her to become an accident prevention counselor in 1971. She received her air transport pilot license in 1973 and became a certified aviation and powerplant mechanic in 1974. The FAA accepted her as a Designated Pilot Examiner in 1981. She has instructed several

hundred students in various licenses and ratings and has developed a highly regarded ground school course for flight instructors and student pilots covering the effects of the new Practical Test Standards.

Mr. Skunberg, an aviation and powerplant mechanic has 14 years experience in his field. He has owned and operated his own business since 1980. His experience ranges from older aircraft to modern aircraft with high performance turbocharged and injected engines. His company has continued to expand to offer a full-service repair facility with a dedicated staff.

The CFI and Maintenance Technician of the Year awards are sponsored annually by the Aircraft Owners and Pilots Association, FAA, General Aviation Manufacturers Association, Helicopter Association International, National Air Transportation Association, and National Business Aircraft Association.

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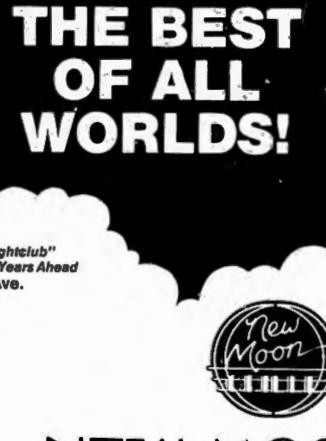
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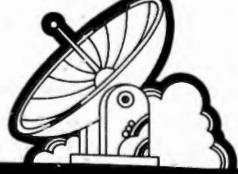
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