

8-5-1992

## Avion 1992-08-05 (A)

Embry-Riddle Aeronautical University

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# THE AVION

An award-winning newspaper by students for students

## Some American athletes surpass expectations while others fall short

BARCELONA, Spain (AP) — Danell Nicholson ran into one rough Cuban heavyweight Monday at the Summer Olympics, where Americans were running into a lot of tough customers.

Mike Conley is one tough hombre himself. As quick as you can count 1-2-3, Conley hopped, skipped and jumped into Olympic history with the Games' longest triple jump ever.

Nicholson led after two rounds of his fight Monday but couldn't withstand a third-round barrage by world champion Felix Savon, who hasn't lost in four years.

"I thought I pulled it out," Nicholson said. "I'm not a judge, but I thought I won."

After Conley crushed the opposition with the second-longest triple jump ever — a wind-aided 59 feet, 7 1/2 inches — he walked off the awards stand, kissed his medal and said to the nearest TV camera: "This is for you, America."

Four other Americans — boxers Chris Byrd and Oscar De La Hoya, and tennis players Mary Joe Fernandez and Jennifer Capriati — clinched bronze medals, and now, it's on to the semifinals.

Today, Fernandez faces the tournament's No. 1 seed, Steffi Graf, who has lost just 11 games in winning four matches, and Capriati meets No. 2 seed Arantxa Sanchez Vicario in her homeland.

Thursday, Byrd takes on Chris Johnson, a Canadian thunder puncher, in the 165-pound class, and De La Hoya fights brawling South Korean Hong Sung Sik at 132 pounds.

Tough customers all, and here comes more heavy resistance.

The U.S. baseball team faced a crew of clobberin' Cubans last night in the semifinals. The Americans have a plan. Put on hockey pads and pretend this is Lake Placid in 1980.

"Let me tell you something. If this ballclub dumped Cuba, it would be bigger than the hockey team," said U.S. baseball coach Ron Fraser, who gave his team a 40-minute inspirational talk in the dugout Monday.

In women's basketball, at least, the United States shouldn't run into

any tough customers. They're it. The U.S. women broke their Olympic record for scoring in a 114-59 victory over Spain, and they'll meet the Unified Team in the semifinals Wednesday.

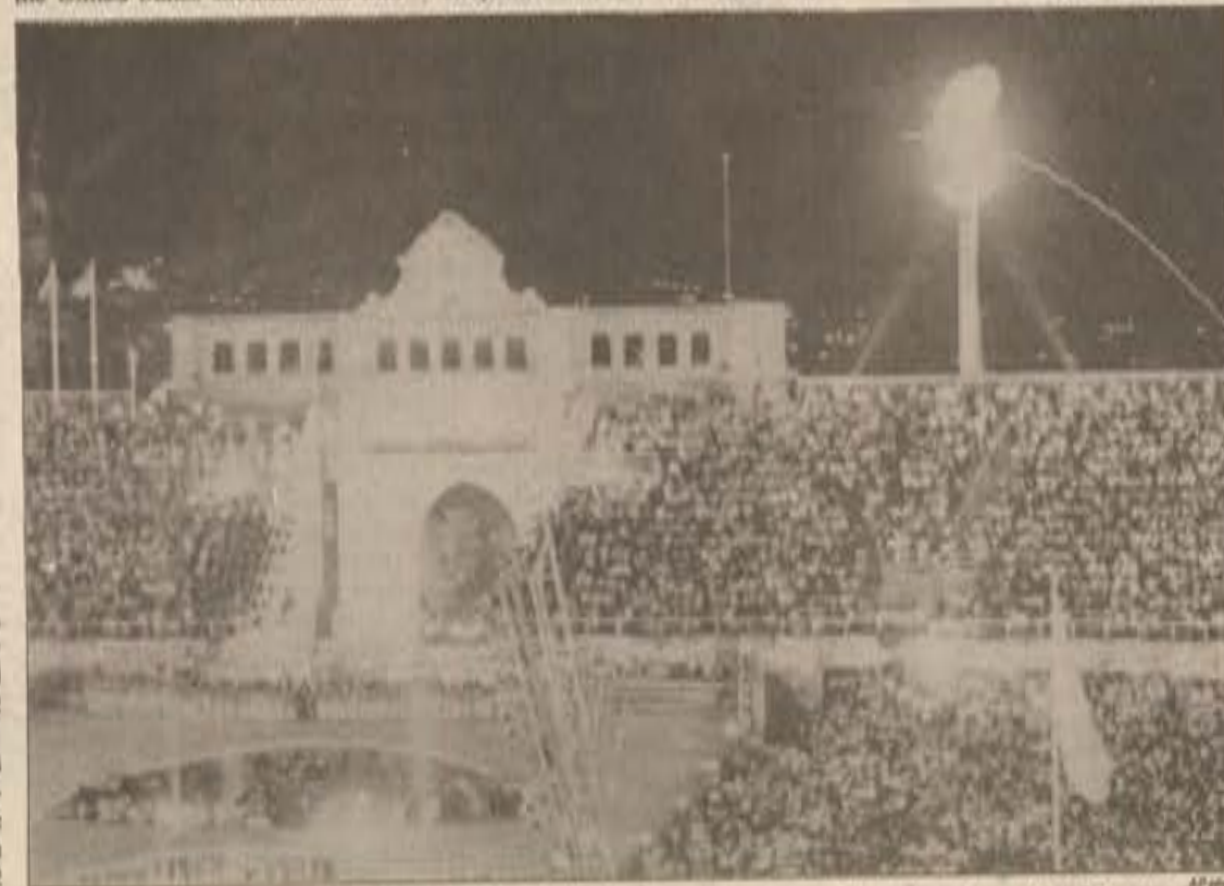
Medina Dixon scored 28 points, the most ever for a U.S. woman at the Olympics, and they are just two victories away from a third straight gold medal.

Also a winner was the U.S. men's volleyball team, 9-15, 16-14, 15-11,



15-13 over Italy, and it will face the Unified Team in Wednesday's quarterfinals.

see Olympics, page A7



The 1992 Summer Olympics in Barcelona, Spain were kicked off on July 26 with the lighting of the Olympic torch. Spain's Antonio Rebollo shot the arrow that lit the cauldron.

## Aircraft damaged in severe thunderstorm

By Bill De Brauwler  
Campus News Editor

A severe thunderstorm pounded New Smyrna Beach airport yesterday, causing damage to aircraft, automobiles and hangars.

Eleven Embry-Riddle aircraft were parked on the ramp at the airport as students and instructors were waiting for the storm to pass, which had seemed to have developed quickly.

Several of the aircraft were blown around, causing the wing tips to strike the ground. In one case the wind was strong enough to cause substantial damage to a Cessna 172.

The aircraft, N940L, or better known as Riddle 55, suffered a bent left wing tip, bent propeller and damage to the landing gear.

A Tampico also had a wing tip strike, which only caused cosmetic damage to the paint.

Ken Doucette, training manager for PA 110, was on a local flight to evaluate a potential flight instructor new-hire when they saw the storm approach and decided to land at New Smyrna.

They were waiting with other students and instructors when, around 3 p.m., the storm hit the airport. "Those were definitely hurricane force winds," he claimed. He added that the winds lasted around one minute, before they died down.

Chris Pyle, who was the flight supervisor on duty, estimated the winds were probably around 80 mph, coming out of the Northwest.

A Cessna 150, which does not belong to the University but was also parked on the ramp, flipped

onto its back. It was apparently tied down by the tail only.

The wind was even capable of turning a Grumman Albatross 180 degrees. The Albatross is a large twin-engine seaplane. The aircraft had a nose tie-down which probably broke, allowing the wind to blow the airplane around.

Other damage included a bent flag pole and a shredded American flag. Debris that was blown around was also responsible for breaking the windows of an automobile, parked at the airport.

The door of a hangar belonging to Joe Clark, an Embry-Riddle flight instructor, was also blown in. Fortunately, only Clark's car was parked in the hangar. Clark is currently at the Oshkosh air show with his airplane. His car suffered only light damage.

The weather at Daytona Beach was not as severe during that time. According to David Roth, of the National Weather Service in Miami, Daytona was reporting the wind out of the west at 18 knots, gusting up to 26 knots. The National Weather Service at Daytona Beach could not be reached to contribute to this report.

Controllers at the Daytona Beach air traffic control tower claimed that they could see the storm on their radar scopes but their equipment does not give the intensity of the storm.

With the exception of Riddle 55, the remaining ten aircraft, which consisted of one Tampico, two Mooneys, four Cadets, one Crusader and three Cessnas returned to Daytona Beach after the storm passed.

## Atlantis' astronauts begin experimenting with Tethered Satellite

By Ron Hess  
Aeronautics Editor

Space Shuttle *Atlantis* headed for space once again last Friday.

*Atlantis* began its twelfth mission at 9:56 a.m. on July 31. The shuttle is flying mission STS-46. The flight is NASA's 49th shuttle mission.

STS-46 launched from PAD 39B into a low cloud deck. The flight

path took *Atlantis* out over the Atlantic Ocean, on its way to a 28.45 degree orbit, 264 statute miles above the Earth.

The lift-off was almost perfect except for a 48 second delay. The

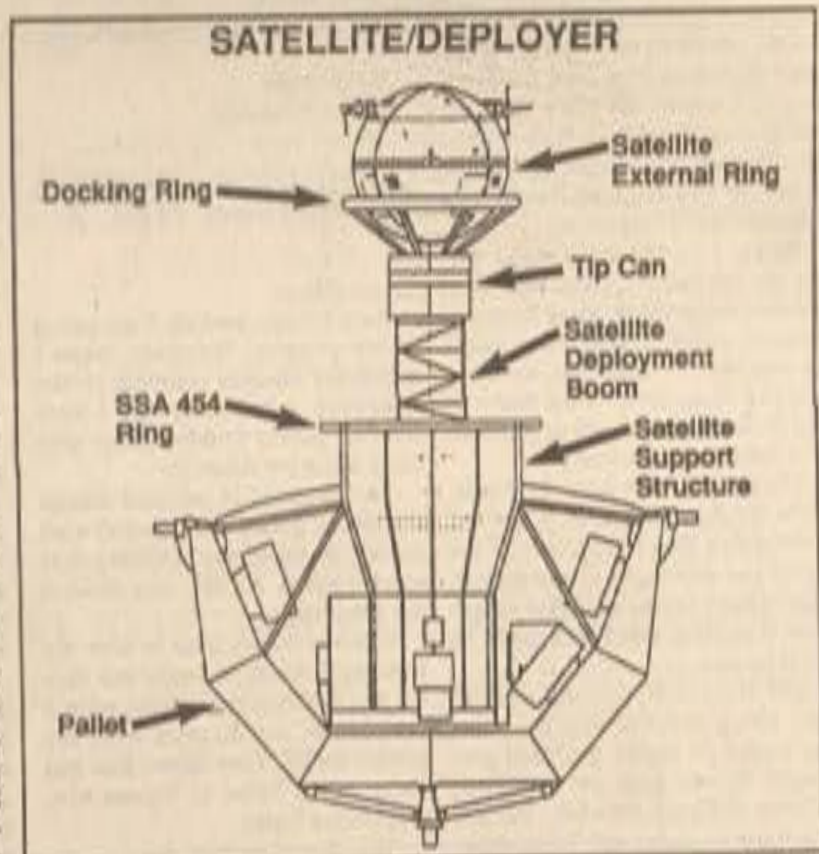
crew was late in throwing a switch that would open a power unit valve. The delay prevented *Atlantis* from becoming the first space shuttle to launch on the appointed day at the appointed moment since 1985.

STS-46 is crewed by seven astronauts, four of whom are veterans. Commander of the mission is USAF Colonel Loren J. Shriver. Shriver served on missions STS-51C in January 1985 and STS-31 in April 1990. STS-31 deployed the technically flawed Hubble Space Telescope. US marine Corps Major Andrew M. Allen, on his first shuttle flight, is piloting *Atlantis*.

Three of the four mission specialists have flown before, including Jeffrey A. Hoffman (Ph.D.) on STS-51D in April 1985 and STS-35 in December 1990; Franklin R. Chang-Diaz (Ph.D.) on STS-51C in January 1986 and STS-34 to deploy the *Galileo* spacecraft in October 1989; and Marsha S. Ivins on STS-32 in January 1990 to recover the Long Duration Exposure Facility (LDEF). The fourth mission specialist, Claude Nicollier is flying for the first time as an ESA astronaut.

The payload specialist, Franco Malerba (Ph.D.), is the first Italian citizen in space. Umberto Guidoni (Ph.D.), the alternate payload specialist, is a member of the science team at the Tethered Satellite System (TSS-1) Payload Operations Control Center (POCC) at NASA's Johnson Space Center.

*Atlantis* has two special retrievable satellites in its payload bay. The



A side view of the Tethered Satellite System is shown above on its shuttle compartment pallet. The boom is extended to keep the tether away from the shuttle.

orbiter is transporting the Italian Space Agency's Tethered Satellite, and the European Space Agency's EURECA scientific satellite. The third piece of equipment occupying the shuttle's payload space is an experiment platform.

The 264 mile high orbit placed

*Atlantis* and its crew in a position to perform their first mission, the deployment of ESA's European Retrieval Carrier (EURECA). The satellite, similar to NASA's LDEF, is a free-flying, reusable science payload carrier.

see Shuttle, page A7



Space Shuttle *Atlantis* lifts off Pad 39-B last Friday on its 12th and the 49th overall shuttle mission. After a short delay, the shuttle broke through the haze at 9:56 a.m.

### Inside this week:

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Faster Pussycat plays at the Station in Orlando.

see Diversions, page B5

### News in brief...

#### SGA office registers voters

The Student Government Association has become an official voter registration site for Volusia County. Members of the Embry-Riddle Community can register to vote between 12:30 p.m. and 2:00 p.m. on Monday's and Wednesday's in the SGA office.

#### Last Avion issue of summer

This is the final summer issue of the *Avion*. The *Avion Orientation* issue will come out on August 20.

#### Parking Lot closed for repair

"C" Parking Lot (north of Spruance Hall) will be closed to all

traffic and parking until August 11th. This area will be barricaded to enable a vendor to repair the lot. Please make other arrangements for parking during this time.

#### Entertainment to show movie

The Entertainment Committee will be showing Steven King's *Sleepwalkers* tomorrow at 8:30 p.m.

#### Homecoming theme chosen

After receiving input from the Embry-Riddle Community, the 1992 Homecoming Committee has chosen the theme of "Plane Crazy" for this fall semester's homecoming celebration.



Patriot missiles are sent back to the Middle East.

see National News, page A6



**THE AVION**  
Embry-Riddle Aeronautical University

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Newspaper

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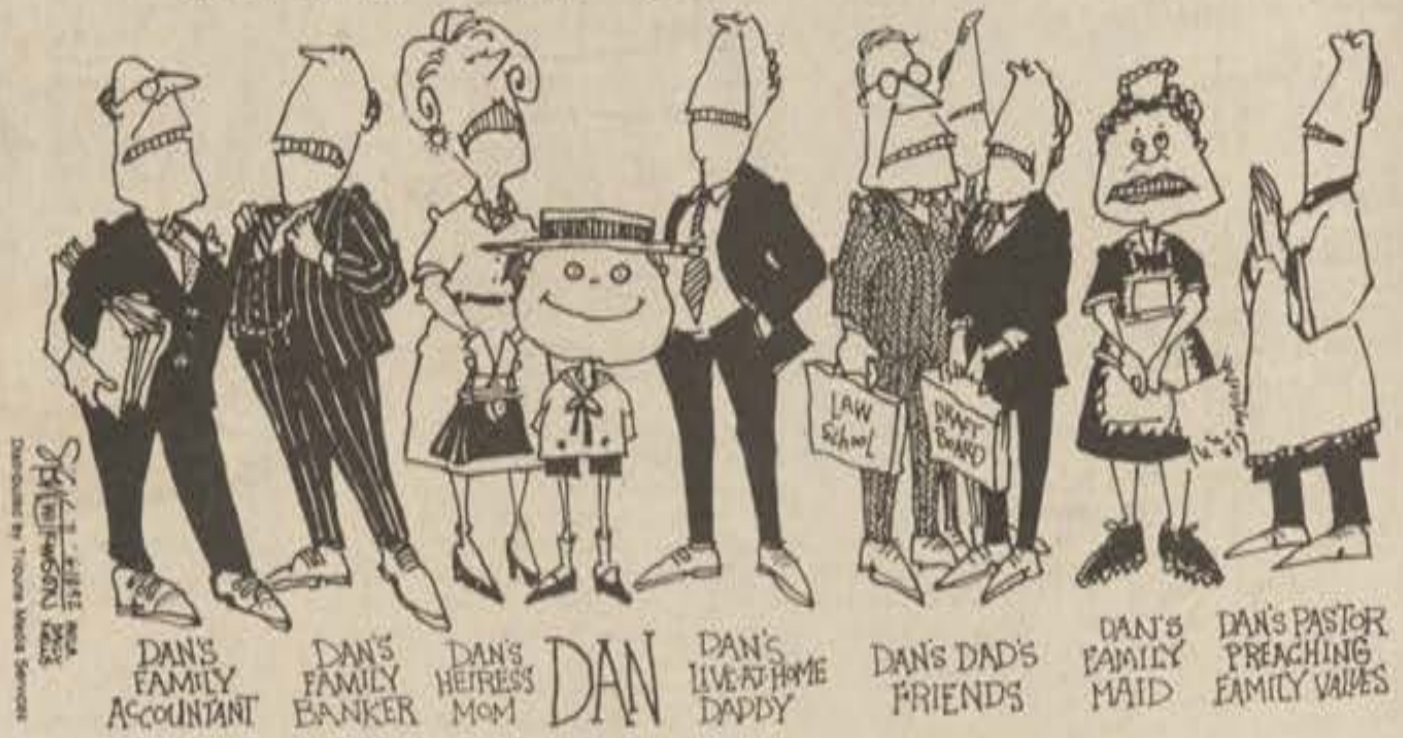
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Adviser  
**Dr. J. Roger Osterholm**

This week's staff: Rick Arkwright, Silvin Blackstock, Douglas Fischer, Beth Grabowitz, Sinclair Lagergren, Bob Mallon, Mike Senn and Brian White.

The editorial opinions expressed in The Avion are of The Avion Editorial Board and do not necessarily represent those of the University, the staff of the Avion or the members of the student body. Letters appearing in The Avion do not necessarily reflect the opinions of the University, The Avion or members of the student body. Opinions expressed elsewhere are those of the writer, who is identified. Letters submitted may be edited for brevity and may be printed provided they are not libelous, obscene or defamatory. Letter writers shall confine themselves to a single topic. All letters must be accompanied by the signature of the writer. Names may be withheld on request at the discretion of the Editor in Chief. The Avion is an Associated Press member newspaper and subscribes to the Campus News Digest. Associated College Press, and College Press Service. The Avion is produced by a volunteer student staff weekly throughout the academic year and bi-weekly throughout the summer. The Avion is funded through Student Government fees and advertising revenue. This newspaper and its contents are protected under the copyright laws of the United States. No portion of this publication can be reproduced without express written consent of The Avion Newspaper. Correspondence may be addressed to: The Avion Newspaper, Embry-Riddle Aeronautical University, 800 S. Clyde Morris Blvd., Daytona Beach, Florida 32114. Phone: (904) 226-6049; Fax: (904) 226-6002.

DAN QUAYLE'S PORTRAIT of a TRADITIONAL FAMILY:



**Editorials**

**Equal rights: A pair of opposing views**

The other day, a colored friend and I were discussing a common problem in the United States. We were talking about racism and discrimination. The conversation began as a jovial exchange of words, but turned into a heated dispute when a colleague made reference to the "quota system."

I was first introduced to the terms quota system in an ethics course at Penn State. The course discussed causes of discrimination and techniques that have been used to remedy the problem. In an effort to prevent discrimination the "quota system" was developed.

A quota system in a business requires employers to hire a specific number of minority applicants for significant job positions. The objective is to make minorities more competitive with their white counterparts. Supporters of the quota system feel that minorities are discriminated against when they apply for a job because of their race and color.

My friend believes in the quota system. He feels that the system makes him more competitive. I had to ask him, competitive with whom? I asked him to consider a scenario. If he and I were equally qualified for a job and both of us were being considered for the position, would he mind if he were chosen for the job because of his race. He answered yes. I explained that the quota system does not make us equal, but rather gives him an unfair advantage over me. I then asked him to consider the possibility of reverse discrimination. He felt that this was absurd.

Theoretically, without a quota, when a white male and a colored male apply for a job in which both men are equally qualified, then the colored man will not get the job because of prejudices. Under the quota system, if an equally qualified white male and colored male apply for a job and the quota has not been filled, then the colored man should receive the position, because his race has been discriminated against.

In reality, a white person as at a disadvantage. If I were to not receive a position because of my color or race, then am I not being discriminated against.

The Air Force Academy is an example of the quota system on the collegiate level. I know from experience that the Air Force Academy divides its enrollment applicants into specific divisions. Certain slots are provided for general applicants, minorities, relatives of deceased veterans and relatives of the President and Vice-President of the United States. Applicants compete against others in their division, not against every applicant, for the limited slots.

Another point that I asked my friend to consider was pride. I had to ask if having a job just because of his race and not his ability made him proud. He answered yes. I wanted to point out that he was receiving preferential treatment that was contrary to what men like Martin Luther King Jr. protested for. To me, a quota system would be an insult. All of the protesting for minority equality that has occurred seems to be undermined by such a program.

I could have applied as the son of a deceased veteran, and I would have had a better opportunity of acceptance. Instead, I wanted to compete with the rest of my peers and chose to apply as a general applicant. The outcome is insignificant but obvious because I have written this editorial. I lost an appointment because of some sim-

ple surgery. Supporters of the quota system feel that such a system provides equality. Further consideration shows that whites and coloreds are not competing for a position but rather, are competing only against members of their own race. How does this provide equality? This was the focus of my argument against my colored friend.

As most college graduates enter the job market during these difficult times, many find it competitive to seek employment. Many of these college graduates are minorities who are very capable of entering the job markets in their fields of study. Apparently as these minorities enter the upper echelons of the job market, most whites view this as a plague brought on by the push for a Civil Rights Bill. White Americans have the misunderstanding that employers will be under pressure by the government to fulfill the minority quota.

White Americans view this as form of discrimination because it appears that a minority was handed a job position over a white person in order to fulfill the needs of the quota-system. I have overheard many comments that the quota-system was created to place underqualified minorities in positions in which a caucasian belongs in charge. First of all I do not view being born a minority as being a helpless handicap or underqualified individual. The Civil Rights Bill was created to ensure that when minorities and women applying for a job position that they are given the equal opportunity to compete for the position, as long as these persons have the credentials to compete. Minorities in positions such as doctors, engineers and pilots earned these positions through hard work and dedication to the fields they have chosen to pursue. In order for these minorities to enter these fields they must have gone through college, pass the same rigorous exams and follow along the same channels as their white counterparts. I personally do not feel that if I enter an emergency room clinic with serious injuries that a white doctor will be more capable of help-



**Silvin Blackstock**  
Avion Staff

ing me over an Asian, Hispanic, or African-American. It would be based on total ignorance to assume that these minorities received these positions because they were born as minorities. Employers do not arbitrarily hand out these highly skilled positions to under qualified people simply to fulfill a quota.

Again this is a misconception that is brought about by jealousy, ignorance and fear that a minority or a woman is fully capable of competing with their white counterparts on equal terms. Personally I cannot count the times I have been told that the reason why I was accepted to Embry-Riddle was because of the color of my skin. I am now a senior at this university and if I were academically incapable to attend here I would have been filtered out of this university a long time ago.

Those that have expressed that negative view of me are no longer here. I can say they no longer attend this university since they failed academically.

Then there are those who claim that the Africa-American population on this campus remains here because of funds donated by the United Negro College Fund or some other form of minority scholarship. The United Negro College Fund does not provide one penny for any of the African-American students on this campus! All of us are paying our tuition through loans and the sacrifices that our parents make.

We earned the right to attend this university; not because we are non-white, but that we are capable of competing and struggling to remain here just as our white counterparts.

In the end, minorities are definitely qualified to meet the expectations of the professions of their choosing. Basically, the Civil Rights Bill is just added protection from a nation that still has a covert discriminatory policy regarding hiring minorities and women.

It seems that those who seem extremely bitter over a minority being hired over a White-American are the same people not to admit that there are some highly qualified and competent minorities in the America.

**Letters to the Editor**

**University should be a job provider**

To the Editor:  
As a recent graduate from this University, I, like many of my former classmates, are unable to find positions in our fields of interest.

end result could be worth more that if you hired externally.

Name Withheld by Request

I know that the economy has much to do with this dilemma; and the current state of our "American" airlines remains a mystery that unfolds, like a bad soap opera, on a daily basis. With all this against me and my friends, it is no wonder why we cannot find suitable positions in companies that we prefer.

**The Avion gets a pat on the back**

To the Editor:  
Congratulations on a great newspaper. Campus Editor Bill De Brauwier has done a great job to capture news of interest to the students.

I also like the coverage of National News. If I can help in any way, just call.

Helen Riger  
Public Relations

One company that I prefer is the one I graduated from. Yes, believe it or not, I would not mind working for Embry-Riddle. In fact, I have already sent my resume and cover letter to the Human Resources department for evaluation.

**Olympics covered by biased NBC?**

To the Editor:  
As a foreign student, I am proud of my country. However, when I watch my country compete on the television, I feel as though I were the only person in this country who cares about my country.

The coverage is centered around the United States. NBC doesn't want to cover what my country has accomplished. All they care about is the Americans.

When it comes time to hear my National Anthem, it seems that they cut to a different event. Even when a member of my country wins the golden medal. They ignore him and focus on the Silver or Bronze winner, United States.

NBC should be more fair.

Name Withheld by Request

Sadly, I do not think that I will get the job that I applied for. Why, because the position, titled Research Analyst, requires experience that I do not have. I feel that with my degree I could perform the duties of that position just as well as someone who has some experience.

The point of this letter is simple, while the Administration of Embry-Riddle says that I have earned the rights and privileges of my degree, it feels that I am not qualified to perform a position that could easily be filled by me.

The University should change their hiring policies, they are missing a pool of highly qualified personnel. People who are dedicated, willing and able to work, but are shunned because of "minimum requirements." Why don't you give us a chance to prove our worth. The

**Student Forum** The Avion asks: Should George Bush replace Dan Quayle with a new running mate?



**Mellisa Clay**  
Aviation Business

"No, I just think he has had a bad rap."



**Darryl Seow**  
Aerospace Eng.

"I think he's all right."



**John Wright**  
Aero. Science

"If he can spell 'Vice-President' he is worthy of the position."



**Don Pierre**  
Aero. Science

"My political views are much like my sex life at Riddle - inactive."



**Corey Tims**  
Aero. Science

"Sure."



**Craig Byrd**  
Aero. Science

"No, he shouldn't. He (Quayle) made some mistakes, but so did Bush when he was VP."

Photos by Bill De Brauwier



## Two AFROTC graduates chosen to attend Euro-NATO training program

By Bill De Brauwler  
Campus News Editor

Headquarters Air Force ROTC recently selected 15 primary and eight alternate pilot candidates from a field of 123 nominations nationwide to attend Euro-NATO Joint Jet Pilot Training (ENJJPT). Two Embry-Riddle April 1992 graduates were amongst those selected to the group.

2nd Lt. Mickey L. Ballard will attend ENJJPT as a primary candidate, and 2nd Lt. Peter M. Bilodeau will stand by as an alternate.

Ballard was born in Louisville, Ky., and came to Embry-Riddle in 1988 to pursue a degree in Aeronautical Science. While in ROTC he served as Flight Commander, Field Training Preparation Staff and Cadet Wing Commander.

He also received the Sons of the Confederate Veterans Award, the Physical Fitness Ribbon, the Leadership Award, the Robert E. Misloe Achievement Award, the Field Training Camp Vice-Commandant Award, the Field Training Camp Athletic Excellence Award and the Honor Flight Ribbon.

Ballard was also a member of the Omicron Delta Kappa (ODK) national honor leadership society, made the National Dean's List, Embry-Riddle Honor Roll and was Who's Who Among Students in American Colleges and Universities in the Fall 1991 semester. He graduated with a cumulative GPA of 3.08.

Bilodeau was born in Woonsocket, R.I., and also came to Embry-Riddle in 1988 to pursue a degree in Aeronautical Science.

He served as a Flight Commander, Wing Adjutant, Field Training Preparation Assistant Chief, Cadet Training Officer, Deputy Commander for Plans and Wing Inspector General while in ROTC.

His Air Force ROTC awards include the Field Training Camp Excellent Performance Award, the Field Training Camp Athletic

Excellence Award, the American Legion Military Excellence Award, the Superior Performance Award, the Air Force Association Outstanding Leadership Award, the Cadet of the Month Award and the Flight Commander of the Month Award.

Along with Ballard, Bilodeau was a member of ODK, and was on the Embry-Riddle's Dean List and the Embry-Riddle Honor Roll. He was also a member of the Sigma Tau Delta National English Honor Society. He graduated with a cumulative GPA of 3.35.

Both were commissioned through the Air Force program and are currently in inactive reserve status awaiting their assignment to pilot training at Sheppard Air Force Base, Texas, through ENJJPT.

They were two of six out of 44 graduating cadets that received an appointment to regular status in the Air Force, and will be sworn in as regular officers upon their call to extended active duty.

ENJJPT is a competitive program that trains approximately 320 undergraduate pilots each year for follow-on assignments to tactical fighter aircraft.

Eight participating nations have students and instructors in the program. The countries are: Belgium, Denmark, Germany, Italy, the Netherlands, Norway, the United Kingdom and the United States.

**The ENJJPT student pilots and staff instructors of today will be the leaders of NATO's tactical air forces of tomorrow.**

Canada, Greece, Portugal and Turkey contribute instructor pilots to the multinational staff.

The ENJJPT student pilots and staff instructors of today will be the leaders of NATO's tactical air forces of tomorrow.

The Air Force ROTC grade point average of those selected to attend ENJJPT was 3.76 and the cumulative grade point average for selectees was 3.11.

Twenty-two of the 23 primary and alternate selectees hold private pilot licenses and the average flying hours for selectees is 218.5 hours.

Additionally, 86% of the selectees were corps commanders or vice commanders and 59% were commandant (top cadet) or vice commandant (top 5%) award winners at cadet field training.

"The quality of the nominees was exceptional," said Brig. Gen. Robin G. Tomow, Air Force ROTC commandant. "Though our Air Force of the future will be smaller, based on the quality of these incoming pilots, I'm confident that our Air Force will continue to be the best in the world."



Ballard



Bilodeau

### Who was that mystery man?



Pictured above is Woodrow "Woody" Keiser and 2-year-old Cody McCoy in the arms of his mother Marni. The last issue of the *Avion* had a photo of these three on the front page. However, due to a printing error, the photograph was unrecognizable. Mr. Keiser has been credited with saving the life of Cody, who was trapped in a sinking car.

## Flight team members set new records

National Aeronautic Association News Release

The National Aeronautic Association approved two records claimed by Embry Riddle Flight Team members Keith Plumb and J.P. Walsh.

These city-to-city records were set on April 24, 1992 while enroute to the National Intercollegiate Flying Association's National SAFECON competition at Monroe, Louisiana.

The records are from Daytona Beach to Crestview, Fla. and from Daytona Beach to Monroe, La. with speeds of 103.38 mph and 82.68 mph, respectively.

Plumb and Walsh made the flight in a Cessna 172. The flight covered 690 miles in 8 hours and 21 minutes, and included one fuel stop.

The National Aeronautic Association is the national aero club of the United States. NAA is the United States representative to the Federation Aeronautique Internationale, the 80 country organization that oversees all aviation and space records throughout the world.

## Study shows that students who sit in front row do better in their classes

College Press Service

WILKES-BARRE, Pa. - First-year college students who sit in the front of the class are cool under pressure, skip less and get higher grades than those who sit in the back, according to an informal study.

Charles Brooks, chairman of King's College psychology department, said it's a snap to measure students' self-esteem by their seating choices.

"The more motivated, confident, and scholastically oriented students will generally choose the front," said Brooks, who conducted the study with the help of a student and the chairman of the human resources

management department.

Brooks, a self-confessed back-row sitter until graduate school, said that he became intrigued when he noticed that his female students sat in the front of the class, and the males in the back.

Brooks says he is uncertain whether this gender-seating phenomenon holds true in most classroom settings.

"Maybe the males think it is macho to sit in the back," he said.

However, through extensive testing, Brooks discovered that those who sit in the front score higher on self-esteem tests and are generally less anxious than those who sit further from the professor.

"Some argue that the front rows create a better learning environment

because students can see better, hear better and have more eye contact with the professor. But I have found that (students) do better because they have the type of personality that leads them to work harder. These traits dispose them to sit in the front of the room."

Brooks said that the conclusions of the study are true only when there is self-selection in seating in a classroom that holds approximately 40-50 students with six to eight rows across, six to eight rows deep.

"The scores of motivation and self-esteem were highest in the first two rows and leveled off in the last four rows," Brooks said.

"I'd say that the study confirms what many teachers have observed through common sense," he said.

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"Shazam!"



Lightning can be seen over the Main Street Bridge from the Broadway Bridge. The accompanying rain started the area on recovery from a record low rainfall in July.

# University orders 10 more Tampicos

Order includes option for 16 more

Embry-Riddle News Release

The University signed an agreement today to purchase 10 more Tampico TB-9 aircraft from Aerospatiale General Aviation.

"The 10 aircraft will be delivered in January 1993," said Paul McDuffee, director of Embry-Riddle's flight services and its chief flight instructor. "We have placed an option on the purchase of 16 more aircraft which would be delivered in a late summer/early fall 1993 time frame," he said.

In fact, on receipt of its pending aircraft orders, Embry-Riddle will have one of the largest Aerospatiale fleets in the world, according to Bill Monroe, Aerospatiale's vice president of sales and marketing.

President Sliwa said the Tampico was chosen to add the greatest value to the students' training dollar. "We examined a number of important considerations, not the least of which was the safety and suitability of the available aircraft alternatives," Sliwa said.

The University operates a combined fleet of more than 140 training aircraft at both its Daytona Beach

and Prescott campuses. Fourteen Tampicos already have joined the student training fleet.

The TB-9 is a low-winged aircraft, which is supported by a fixed landing gear configuration. Powered by a single Textron Lycoming engine, the Tampico also is equipped with Bendix/King avionics.

The 10 aircraft will be VFR equipped with VOR/LOC receivers, an ADF, and one communication/navigation radio. The University will sell 10 Cessnas to make room for the new aircraft.

The University has until January 15, 1993 to exercise its option on the additional 16 aircraft. According to McDuffee, unless something dramatic happens to the Flight Department or to the aircraft, the option will be exercised. That would leave the University with 40 Tampicos.

According to Sliwa, Embry-

**Embry-Riddle will have one of the largest Aerospatiale fleets in the world.**



Embry-Riddle's fleet of Aerospatiale Tampico aircraft will soon grow to include 10 more aircraft.

Riddle is committed to providing high quality flight training for its students.

The University's fleet of single- and multiengine aircraft are integral components in the four-year aeronautical science degree program.

"The latest Tampico purchase helps galvanize our relationship with the manufacturer and will give a boost to this country's aircraft pro-

duction base as well," said Sliwa. "As a leader in aviation and aerospace education, we are committed to the support of general aviation manufacturing and the resumption of its growth in America," Sliwa said.

Aerospatiale General Aviation currently handles final assembly of the TB-9 at its Grand Prairie, Texas plant.

## Alumnus dies in Osprey crash

By Bill De Brauer  
Campus News Editor

One of the victims that died in the V-22 Osprey crash last month was identified as Robert L. Rayburn, a 1981 Embry-Riddle alumnus.

Rayburn was serving as the test director for the aircraft when it crashed in the Potomac river on Monday, July 20, killing all seven on board. The crew consisted of four Boeing employees and three Marine Corps employees.

The aircraft, which was the fourth to be produced, was on its way to Quantico Marine air base, in Virginia, after undergoing testing for exposure to extreme weather at Eglin Air Force Base in the Florida Panhandle.

The reason for the crash is still

under investigation, according to Nick Kernstock, manager for V-22 communications.

Rayburn was born in Virginia in 1957 before moving to Greensboro, N.C. His passion for flying led him to enroll at Embry-Riddle to study Aeronautical Engineering.

He graduated in 1981 with his Bachelors of Science in Aeronautical Engineering and went to work for Boeing in Seattle.

He was transferred to Philadelphia in 1983, where he became involved with the V-22 Osprey project, eventually becoming a senior flight test engineer on the project.

He was the test director for aircraft number four, and was responsible for all the testing done on the aircraft, including interfacing

between the pilots and engineers.

His position kept him informed of everything that happened to the Osprey. "He knew more about the V-22 than anyone on earth," said Kernstock.

When Rayburn was not working on the Osprey, he was flying. He held single and multiengine commercial instrument certificates and ratings including an instructors rating.

According to Kernstock, Rayburn was respected by everyone he worked with. "Bob was a lot of fun, but was all business when it came to the [V-22 Osprey]," said Kernstock.

Rayburn was buried last week in North Carolina. He is survived by his wife, Dorothy; his son Allen, 7; his daughter, 4; his parents and his brothers and sister.

## Office moves nearly complete

By Bill De Brauer  
Campus News Editor

The University has nearly completed relocating various offices and departments to their new locations.

Some of these departments have moved to the new Campus Extension, which is located in the General Electric Complex across the Speedway.

The University is also in the process of moving the offices that are located in the academic complex to Spruance Hall.

Some of the space emptied by the move will be used for classrooms. The moves should be complete by Friday.

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# Fire extinguished after burning 350 acres

By Roger Harnack  
Community News Editor

Fires burned over a thousand acres of land in Central Florida. Closest to home was a fire ignited by lightning over two weeks ago.

The fire, termed a "muck" fire, destroyed over 350 acres lying between Clyde Morris Blvd and Interstate 95. The brunt of the fire was located near Colony in the Woods and Willow Trail Subdivision.

A "muck" fire is typically slow burning and hard to extinguish. This is because the flames creep along under the brush very close to the ground.

The intensity of the fire rose rapidly on Thursday, July 30. The fire drove within a few hundred yards of homes in the Willow Trail Subdivision.

Helicopters were called in to airlift water from a nearby retention pond located along Madeline Avenue to help extinguish the blaze. Water was dropped on the most intense areas of the fire in an effort to slow the advance of the flames.

Concerned home owners set up water hoses and watered down their yards in case the flames would come closer to the subdivision. A command post for the cooperative effort of the agencies involved in fighting

the fire was set up on Hidden Lakes Drive.

Flames devoured utility poles and downed power lines resulting in power outages in the area of the blaze. Florida Power and Light (FPL) employees worked diligently to restore power to the area.

The cooperative effort to extinguish the fire included many local agencies including the Port Orange Police Department, the Volusia County Sheriff's Department, and many firefighting task forces from the area and New Smyrna Beach.

Luckily, the blaze did not directly inflict any injuries to residents and respondents alike. However, it was reported that one firefighter suffered minor injuries after falling from the back of a vehicle involved in fighting the fire.

By Friday the agencies involved in fighting the fire had reported that the blaze was under control. Officials remained, however, to ensure the fire would not regenerate. Recent rains have added hope that the blaze has been extinguished.

**Flames devoured utility poles and downed power lines resulting in power outages in the area of the blaze.**



Burnt transformers attest to the severity of the fire. Residents were without power while FPL workers feverishly attempted to restore power to the area.

## Complaints against UCF filed

By Roger Harnack  
Community News Editor

Some University of Central Florida students have filed complaints with Congressman Craig James about the Financial Aid Department from the university. The Financial Aid Department is accused of being negligent with sensitive student records resulting in a loss of aid for students dependent on their aid for tuition.

One of the students interviewed had initially attempted to file a complaint with State Senator Locke Burt. Burt's office "passed the buck" to Congressman Craig James' office.

One young lady provided the Avion with documentation that UCF had her required forms in March. She also provided documentation that UCF wanted the material resubmitted, some of it for the third time. Her documentation stated "We see from our system that you turned in your '91 tax return on 4/13/92. This copy has not reached your file. Please submit another copy."

### Florida Rapids



JD Smith and his son Jimmy hone their skills in handling a canoe against the Atlantic Surf in New Smyrna.

## Professional Photographers convention a success

By Peter Fiki-Oris  
Community News Reporter

The annual Professional Photographers of America (PPA) convention was held July 19 to 21 in the Orange County Convention Center. The Orlando conference turned out to be a great success. The conference was composed of three sections. The first was a photo exhibition. Seminars and workshops made up a large segment of the program and the trade show rounded out activities.

The photo exhibit was open to the public and is the world's largest photo collection. It consisted of 3000 award winning enlargements and transparencies from artists all

over the world. It included photos from the World Council and submissions from Studio Council as well. The highest rated pictures were part of the PPA Loan Collection.

The seminars, workshops and presentations offered participants a unique opportunity for some of the most innovative photographers to teach their methods and techniques. Among the masters were Mark Hauser on portraiture, Aaron Jones on "Revolutionary Lighting Techniques," and several other professionals on a wide variety of topics.

The trade show was unique because it was dominated by advancements in electronic photography (EP). The dramatic advance-

ments in EP, price reductions and more receptive photographers paid careful attention to the latest advancements in photographic technology and equipment.

Kodak, Fuji, Polaroid, Sony and a host of other companies were present at the exhibit. Sony's exhibit offered the most complete advancements with continuous model photography. The company's complete set-up included digital still-life cameras, preview and proofing, video channel computer-processed and manipulated imaging of photofinishing quality enlargements.

Kodak exhibited an all digital color photo set-up which allows the user to see and edit pictures on screen. This display was perhaps the

most reflective of new innovation in the industry.

Polaroid demonstrated much more than instant print cameras. The display set up by Polaroid demonstrated image transfer techniques. The techniques showed photographers how to transfer images from polaroid negatives to cloth or water-color paper resulting in a variety of effects ranging from romantic to surrealistic images.

Overall, the convention was a success. The latest and most advanced techniques in photography and photofinishing were presented. The world's leading photographers enhanced many fields other than photography.

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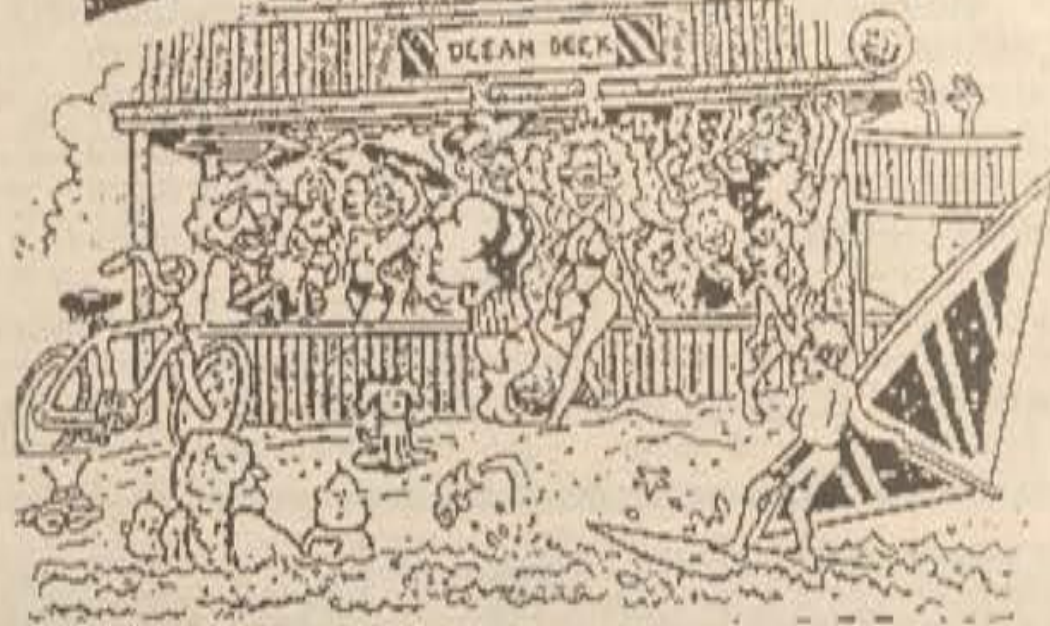


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## Bungee jumping to remain banned

TALLAHASSEE, Fla. (AP) - Florida officials asked an appeals court Friday to keep the state's 18 bungee jumping operations shut down while regulators try to write safe operating rules.

Lifting a state ban as bungee operators asked would endanger public safety, Agriculture & Consumer Affairs Commissioner Bob Crawford argued. The court didn't indicate when it would rule.

Crawford barred bungee jumping in a July 10 emergency rule after a jumper died in Michigan. Eight operators are challenging the ban in court.

Bungee jumpers pay charges in the \$35 to \$80 range to be attached to elastic cords and leap toward pools or air bags below, often from heights over 100 feet. The elastic cords are designed to arrest their fall before they hit.

Crawford filed arguments in the 1st District Court of Appeal citing bungee deaths and injuries including the Michigan fatality.

The most recent injury occurred Tuesday in North Wildwood, N.J. A 34-year-old registered nurse from Newark, Del., broke her back when a bungee cord failed to keep her from hitting an air cushion at the bottom of her jump.

Two Florida bungee sites, in Destin and Panama City Beach, have towers to jump from. All those asking to lift the ban use cranes, Crawford said.

The Division of Standards, the section of Crawford's department that regulates amusement rides, held a hearing Tuesday at which operators said bungee jumping is safer than various activities from scuba



Bungee jumping was a popular attraction during Spring Break this year.

diving to auto travel.

The operators urged Division Director Don Farmer to let them operate while regulations are developed. Farmer said agency lawyers would consider the testimony.

The bungee operators appealed after Orange County Circuit Judge W. Rogers Turner upheld the state's rule-making authority in a July 15 hearing.

"They tell people on motorcycles they got to wear a helmet, they out-

lawed fireworks, tried to regulate hand guns, on and on and on," Turner said.

"The police power is there to sometimes protect people against themselves."

"Their concern is trying to get back in business before it's too late," Harris said. "Imagine having a lease, having a crane and having employees. Your expenses would go on ... but your revenue would stop."

## Kuwait requests Patriots

KUWAIT (AP) - Kuwaitis stopped their cars and turned around on the highway Wednesday to gape at eight Patriot missile launchers pointing north toward Iraq.

The newest desert tourist attraction came from the United States at Kuwait's request, as tensions between Iraq and the United Nations appeared to heat up.

The launchers were set up on a large empty tract between two main highways.

Military officials played down any immediate threat from Saddam Hussein.

"There is no specific threat. But when he is in power he is crazy. He handles his own people badly enough, much less any others," said Col. Mohammed al-Sirri, director of the Ministry of Defense press office.

The launchers were brought in for a joint Kuwaiti-U.S. training exercise.

Patriots deflected SCUD missiles fired by Iraq against Israel and Saudi Arabia during the Gulf War, which was launched to drive Baghdad from Kuwait.

Senior Kuwaiti Cabinet ministers were out of the country this week, visiting foreign capitals to stress that Iraq still should be pressured on all fronts.

But Kuwaiti officers said they believed Saddam was unlikely to launch another attack at this point because it would again face massive retaliation, and neighborhood military powerhouse, Israel, might not be restrained in the next round.

But Kuwait started testing its air raid warning sirens again Wednesday for the first time since the Aug. 2, 1990, Iraqi invasion.

More than 2,000 troops from the U.S. armed forces will take part in exercises to begin Aug. 4.

The Patriots and about a 120 U.S. troops from the 7th Air Defense Artillery Regiment were sent.

## Fewer Americans get foodstamps in May

WASHINGTON (AP) - The number of Americans getting food stamps fell in May for only the second time since enrollment in the program began to climb steadily two years ago, the government said Friday.

The Agriculture Department said 25.67 million Americans were receiving food stamps in May, down 182,404 from April. But May's total is still 2.52 million participants more than a year ago.

Participation in the program first began inching upward two summers ago, and has been setting records ever since.

Enrollment in the program has only fallen twice since August 1990 - first in May 1991 and again in May 1992, said the department's Food and Nutrition Service.

Over the past two years, enrollment has grown by more than 5 million people. Now, 1 in 10 Americans gets food stamps.

The Senate, meanwhile, has sent legislation to President Bush that makes \$4 million in a USDA fund available to publicly run homeless shelters for feeding infants and toddlers.

Under current law, the money is available for just private shelters.

Senate Agriculture Committee aides said the \$4 million has been available in an account at the Agriculture Department, but that federal officials have been reluctant to spend it.

"Despite all the talk about helping the cities, the administration is sitting on nearly \$4 million that should be used to feed children at homeless shelters," said Sen. Patrick Leahy, D-Vt. and the sponsor of the bill.

"Press releases and lofty rhetoric won't put food in children's stomachs."

The Senate passed the bill late Thursday.

The Agriculture Committee said public homeless shelters have been appealing to the White House and Congress for additional aid.

In New York City alone, the committee said, the number of emergency food providers has increased from 30 in 1981 to more than 700 today.

"This won't solve the whole problem, but it's an important step in the right direction," said Leahy.

## U.S. Air Force and DEA look for Escobar

BOGOTA, Colombia (AP) - Hundreds of soldiers searched buildings today, and U.S. planes equipped with aerial cameras crisscrossed the Andes Mountains in a massive manhunt for fugitive drug cartel boss Pablo Escobar.

President Cesar Gaviria rejected protests from Colombian lawmakers about the involvement of the U.S. planes and vowed they would continue to help search for Escobar and nine other fugitives of the Medellin drug cartel.

Six planes from the U.S. Air Force and Drug Enforcement Administration are helping in the search, the Defense Ministry said.

Escobar and nine other cartel members escaped from their luxuri-

ous, specially built jail on July 22 when the government tried to transfer them to a high-security military prison.

The attorney general's office had said Escobar was running the cartel from the jail.

During a debate over who was to blame for the escape near Medellin, many lawmakers objected to the U.S. planes.

One senator, Anibal Palacio of the Democratic Alliance M-19 Party, said Colombia was in danger of an American military invasion. The party was founded by the M-19 guerrilla group, which reached a truce with the government two years ago.

## Many students default on their loans

WASHINGTON (AP) - Forty-three Illinois schools, many teaching hair styling, business or automotive skills, will be bounced from federal aid programs because too many students have defaulted on loans, the government said Friday.

The group includes a handful of two-year public colleges in Chicago, East St. Louis and Godfrey.

"These are tough measures," said

Carolyn Reid-Wallace, an Education Department official, "but they are necessary ... to reduce the unacceptably high cost of loan defaults and to safeguard the future investment of U.S. tax dollars."

More than half the schools are in Chicago, and the rest are scattered throughout the state. They each have a trend of high default rates among students who used government-backed loans to pay tuition.

One of the worse rates belonged to students who attended Rome Academy of Cosmetology in Chicago. Nearly nine of every 10 students failed to make payments in 1990, the Education Department said.

Three campuses within the Chicago City Colleges system turned up on the list: City-Wide, Kennedy-King and Malcolm X.

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## Policy on women in the military to be developed

WASHINGTON (AP) - Three female members of the House of Representatives Armed Services Committee are drawing up a list of standards for the military they hope will begin to change the attitudes that led to last year's Tailhook sexual harassment episode.

The standards could become part of next year's Pentagon budget bill, and would provide a guide for the military services in rooting out abuse of women, said Rep. Patricia Schroeder, D-Colo., who is drafting the measure with Reps. Beverly Byron, D-Md., and Marilyn Lloyd, D-Tenn.

"This is a positive way to go," Schroeder said. "It will send a strong message" and provide a way of testing the Pentagon's promises to mend its ways.

She said the criteria would include better collection of statistics on sexual harassment cases in the military; using sensitivity to women's concerns as a factor in promotions; stronger education programs on proper behavior between the sexes; and protection of women who file harassment or abuse complaints.

The uniformed chiefs of the military services promised the Armed Services Committee on Thursday that they would work in all those areas, and they acknowledged past failings. "We have never failed to identify the problems," said Adm. Frank B. Kelso II, chief of naval operations. "We have, I must admit, sometimes failed to act on those early warnings."

The Navy is seeking to make up for that failure with a strict "zero tolerance" policy and a readiness to kill the careers of those who ignore the new standards, Kelso testified.

The issue was raised when some 200 naval aviators at last October's Tailhook Association convention in Las Vegas gaped and tried to disrobe at least 26 women, half of them officers. Navy Secretary Lawrence Garrett III resigned over the resulting scandal.

The problem is "obviously a cultural and institutional problem in the Navy," Kelso said.

Kelso and the other service chiefs heard stern lectures from several women on the House panel. "Men must accept women as human beings and not sex objects," said Lloyd. "That is the issue."

Some committee members said the problem seems worst among military aviators, and Rep. Ike Skelton, D-Mo., asked about the different culture among those who fly.

"You've got to have people who have a kind of devil-may-care attitude if you want them to do this work," responded Air Force Chief of Staff Merrill A. McPeak. Marine Corps Commandant Carl E. Mundy Jr. called it "a warrior spirit" and added, "There is such a thing as male bonding."

Alluding to drunkenness that contributed to the Tailhook scandal, Kelso said, "It is clear that we must focus additional attention" on alcohol abuse in the Navy.

He called sexual harassment a more complex problem than the issues of racism or drug abuse that the Navy has tackled in the past.

"Events of the past year make it clear that we in the Navy are facing a crisis of significant proportions," Kelso said.

He outlined what he termed an aggressive plan to educate personnel and punish those who don't comply.

He expressed a willingness to "kill a career" for proven violations.

Byron said she was disturbed that 10 months after the Las Vegas convention, those guilty of sexual misconduct still haven't been identified publicly.

Naval investigators "blew it," she said. The probe now has been largely turned over to the Defense Department inspector general's office.

**"Events of the past year make it clear that we in the Navy are facing a crisis of significant proportions."**  
Adm. Frank Kelso

## Bush plans to send troops to Kuwait

WASHINGTON (AP) - The Bush administration plans to send 2,400 Army troops to Kuwait over the next three weeks for training exercises to further demonstrate U.S. resolve in the Persian Gulf, the Pentagon announced Friday.

Soldiers with mechanized and infantry units from Fort Hood, Texas, and special operations forces from Fort Campbell, Ky., have been given orders to prepare for the move, said Pentagon spokesman Pete Williams.

The move "is intended to ... demonstrate U.S. commitment to the security and stability of the Persian Gulf region," a Pentagon statement said.

The move follows the administration's decision - in light of the ongoing tension with Iraq over United Nations weapons inspections - to send a battery of Patriot mis-

siles to Kuwait, and another battery of the antimissile weaponry to neighboring Bahrain.

As well, Navy and Marines are expected to participate in a round of naval and amphibious exercises with the Kuwaiti military, beginning next week.

Advance units will begin moving next week and fly to the Gulf region over the next three weeks.

Williams described the decision to deploy the forces as a "field training exercise" in line with other naval and amphibious exercises U.S. forces will be conducting with the Kuwaiti military over the coming weeks.

The spokesman said he did not know how long the soldiers would remain in the Persian Gulf emirate.

Williams said the task force will include two mechanized infantry companies and two armored compa-

nies - along with their combat and combat service support units - as well as a headquarters unit from the 1st Cavalry Division at Fort Hood.

A special forces unit from Fort Campbell will also take part in the exercise, dubbed "Intrinsic Action," the Pentagon statement said.

The soldiers will deploy without their usual massive armor and infantry equipment, but will use equipment that has been positioned in Kuwait, the statement said.

"This will exercise the use of the equipment pre-positioned in Kuwait and will test the procedures for contingency operations in the region," the Pentagon statement said.

U.S. Central Command, located at MacDill Air Base, Fla., is in charge of the exercise, the statement said.

A Pentagon source, speaking on condition of anonymity, described

the exercise as "a message to Saddam. It's to show the flag."

The decision to shift some Army armor and infantry troops to Kuwait does not portend military action, the source said.

"It's defensive. It's like an exercise," he said.

"There is nothing going on there now that should raise anyone's level of concern," he said, indicating chances are extremely low that the Army troops would come under fire.

The source stressed that top military officials in the Pentagon were treating the move as "business as usual," and that no great level of anxiety accompanies the decision.

"There's really no alarm about this," the official said, noting, "It's an election year. Bush needs to show the flag."

## Kennedy to stay in Atlantic

WASHINGTON (AP) - The aircraft carrier *John F. Kennedy* is no longer heading toward the Mediterranean and is conducting training exercises in the Atlantic, Pentagon officials said Tuesday.

On Monday, Pentagon officials - speaking privately - said the giant warship was on its way to bolster U.S. forces in the Persian Gulf region. They said it was a signal directed against Saddam Hussein's refusal to cooperate with United Nations-mandated postwar agreements.

But the decision to move the carrier eastward has been reversed in light of Iraq's decision on Sunday to allow a new U.N. weapons team to investigate a government building in Baghdad, a senior Pentagon official said.

"The *JFK* is operating in its normal work-up area in the Atlantic," he said. "The decision to deploy the carrier was made before Sunday's developments."

The carrier interrupted a five-day visit to St. Thomas in the Virgin Islands on Sunday, a rest stop that had prompted crewmen to disperse around the area.

So hurried was the warship's

departure that about 50 sailors were left behind and had to be flown out to the warship.

On Capitol Hill, Gen. Colin Powell, the chairman of the Joint Chiefs of Staff, noted that the Pentagon had never stated the carrier's mission publicly.

"We never said it was heading to the Mediterranean. It is now operating in the Atlantic. ... It's available for any mission we decide," Powell said.

"That's the beauty of aircraft carriers. They are very flexible. You can do what you want once they are on the high seas," he said.

Powell spoke with reporters during a break in his testimony before the Senate Armed Services Committee.

The senior official, speaking on condition that he not be identified, said it wasn't clear whether the carrier would return immediately to its home port in Norfolk, Va.

The next carrier slated to go to the Mediterranean is the *Eisenhower*, which is also in Norfolk. That ship is scheduled to replace the *Saratoga*, which is in the Adriatic Ocean in connection with the civil strife in Yugoslavia.

## DEA agent and informant arrested in internal probe

MIAMI (AP) - A U.S. Drug Enforcement Administration agent and a confidential informant charged with lying to convict a pair of cocaine suspects were trying too hard to bring the two to justice, a DEA spokesman said.

"I think what we have here is a situation where overzealousness took over and resulted in a very tragic situation," said DEA spokesman Jim Shedd. "What we are talking about is perjury in a court proceeding."

A federal grand jury returned the indictment Thursday, charging Thomas Bigoness, a DEA agent in Miami, and Maria Polkowski, a DEA informant, of conspiring to obstruct justice and give false testimony to the original grand jury, judge and trial jury in the case of Evaristo and Balbino Ramos.

The brothers were convicted Nov. 30, 1989, and sentenced to 20 years in prison on cocaine trafficking counts.

Bigoness and Ms. Polkowski didn't act for personal gain but were trying to make sure cocaine traffickers were caught and punished, Shedd said.

The defendants also conspired "to make false material statements to agents of the DEA and in DEA official reports, in order to conceal evidence of an unlawful search and seizure and thereby influence, impede and obstruct the investigation, arrest and prosecution of the Ramos brothers," the indictment said.

An internal DEA probe conducted by the Washington-based Office of Professional Responsibility led to the indictment, the spokesman said.

Bigoness and Ms. Polkowski were expected to surrender to authorities within days, Shedd said.

The Ramos brothers were freed April 24 from federal prison in Atlanta.

"Mostly, we have a sense of relief," said attorney Jon May, who represents Evaristo Ramos.

"We have fought for three years to convince the government that they have rogue agents."

Bennett Kuehne, attorney for Balbino Ramos, said his client now runs a fruit grove in south Dade County and Evaristo runs an auto parts store.

## Shuttle

(continued from page A1)

The system is designed for deployment and retrieval by the space shuttle orbiter. The satellite has self-contained support equipment for six to nine months of operation.

EURECA is both a follow-on development of Spacelab and a precursor mission for *Columbus*. *Columbus* is the European contribution to the International Space Station *Freedom*. EURECA's capabilities are expected to exceed those of Spacelab regarding on-orbit stay time and microgravity environment. This is due to Spacelab's dependence upon the space shuttle system.

This is EURECA's first mission. The vehicle is carrying 15 materials science, life science and technology and space science experiments. On future missions, the EURECA satellite will conduct Earth observations for inter-orbit communication test, and docking and rendezvous missions essential to space station development.

On Saturday, Nicollier deployed the 9,702-pound spacecraft with *Atlantis*' remote manipulator arm. The orbiter maneuvered a safe distance from the vehicle, and 2.75 hours later the 8.5 foot long satellite was to fire its boost to send it into a 310 mile orbit. Problems occurred that prevented EURECA from reaching its operational orbit, and has placed it into a decaying orbit. The difficulties postponed all other activities for one day. Pending successful operation, *Atlantis* is scheduled to retrieve EURECA on STS-57 in 1993.

Sharing cargo space with EURECA is Agenzia Spaziale Italiana's (ASI) Tethered Satellite System-1 (TSS-1). The objective of TSS-1 is to test and validate the concept of a "tethered system." The idea was developed by Dr. Mario Grossi and Prof. Giuseppe Colombo. The men hypothesized that a system of two bodies linked together by a long tether is stable in the vertical direction since the tether is kept under tension by a natural resultant force and flies at the orbital velocity of the system center of mass.

The primary objectives of TSS-1 as written in the TSS-1 background report are: "demonstrate the validity of the 'tether concept' dynamics in terms of deploy, control and retrieve a satellite on long gravity-gradient stabilized tethers in space, and demonstrate that tethered systems can provide unique opportunities for scientific research."

The satellite provides multi-mission capability by a three module design structured in a spherical shape. The 5-foot diameter vehicle has an electrically conductive surface, a payload module for instruments and support equipment, a service module for satellite electrical power and an auxiliary propulsion module.

The 1,141-pound satellite rests in a deployer mounted on a Spacelab pallet in the orbiter's cargo bay. The Spacelab Mission Peculiar Equipment Support Structure (MPSS) contains the orbiter-based science instruments to be used in the experiments. The NASA-developed deployer has a 40-foot boom and a motorized reel that can hold 68 miles of tether.

The tether used for TSS is made of Nomex and Kevlar with a tin coated copper wire core. This will allow the tether to conduct electricity. The diameter of the tether is 0.1 inches, or approximately the width of pencil lead.

The crew deploys the satellite by raising the support boom above the orbiter, considering that the orbiter is positioned with the cargo bay doors open toward Earth. Gravitational forces, aided by the onboard propulsion system, will extend the satellite to 12 miles above *Atlantis*.

The experiment performed by TSS-1 is compared to Benjamin Franklin's kite and key system. The tether and satellite system are deployed into the Earth's electromagnetic field. Movement through the field induces a high-voltage electromotive force (EMF). An electrical charge of between three to five kilovolts builds up between the satellite and the space shuttle. The

EMF forces electrons to flow down the tether to the orbiter. The satellite then becomes positively charged and attracts electrons from the surrounding space plasma and supplies electrons to the tether. The circuit is completed when the electrons are accelerated back into the plasma by an electron gun positioned on the MPSS.

A total of 12 TSS experiments will measure the behavior of the charged particles at the satellite and the environment around the orbiter. The scientific objectives are to gather data that will provide a good understanding of how the TSS tether interacts with the electromagnetic fields. A possible use for the tethered satellite system is as a power source for the space station.

After approximately 30 hours, the crew will activate the five-horsepower electric motor that will rewind the tether and draw the satellite back to the top of the satellite support structure in the payload bay.

Six other NASA experiments round out the cargo list of STS-46. These experiments are designed to study the effects of the space environment on materials and equipment planned for future use on Space Station *Freedom*. They include the Evaluation of Atomic Oxygen Interactions with Materials (EOIM), the TEMP 2A-3 which will demonstrate the thermal control system technology for the space station, the Consortium for the Material Development in Space Complex Autonomous Payloads II and III (CONCAP II and CONCAP III) and the Limited Duration Space Environment Candidate Materials Exposure III (LDCE III). The 70-millimeter IMAX Cargo Bay Camera rounds out the equipment placed in *Atlantis*' cargo bay.

STS-46 is expected to land at Kennedy Space Center on Saturday, August 8, but further complications may extend *Atlantis*' stay. The next space shuttle launch is scheduled for September 1992. *Endeavour*, NASA's newest orbiter will receive the honors of flying the 50th space shuttle mission.

## Olympics

(continued from page A1)

With all 16 of the day's medal events over, the Unified Team led with 78 total, 32 gold. The United States had 68 medals, 20 gold, and Germany was third with 48 medals, 16 gold.

The crowd at the boxing arena roared its approval as Nicholson, of Chicago, took an 8-6 lead over Savon through two rock 'em, sock 'em rounds. In the final round is when Savon's stamina and determination began to show.

A sharp right by Savon forced a tiring Nicholson into a standing 8 count, and the round had to be stopped again when Savon knocked out Nicholson's mouthpiece. Savon wound up winning 13-11, a very narrow escape for amateur boxing's biggest puncher.

Byrd, of Flint, Mich., clobbered Ahmed Dine of Algeria 21-2, and De La Hoya, of Los Angeles, scored a 16-7 decision over Dimitrov Tonchev of Bulgaria.

America has only six boxers left in the tournament, assuring it of its lowest medal total since 1972. The Cubans have 11 of their 12 boxers still in the tournament.

Conley, of Fayetteville, Ark., won the gold with a leap nearly two feet farther than silver medalist Charlie Simpkins of Murfreesboro, Tenn. The only longer jump in history was Willie Banks' 59-8 1/2.

Both those jumps, however, were wind-aided, and the world record still stands at 58-11 1/2 by Banks. Conley's earlier jump of 57-10 1/4 broke the Olympic mark of 57-9 1/4 in 1988 by Khristo Markov of Bulgaria.

"I've been second and third place, fourth place, all my life," Conley said. "Everybody always says Mike

Conley can't win the big one. Today, I'm the best jumper in the world."

Quincy Watts of Los Angeles set an Olympic record of 43.71 seconds to qualify for the finals in the 400-meter run, which will be held Wednesday. It was the second-fastest 400 in history.

Lee Evans of the United States set the previous mark of 43.86 in the 1968 Games at Mexico City. The world record is 43.29 by Butch Reynolds in August 1988, and Watts' time is the second fastest ever.

Mark McKay of Canada, who was banned from running for Canada for two years after walking out in sympathy with Ben Johnson at Seoul, won the 110-meter hurdles in 13.12. Tony Dees of Tampa, Fla., and Jack Pierce of Marlton, N.J., ran 2-3.

And Chen Yueling of China won the women's 10-kilometer walk-don't-run, because she didn't. It's the first time the women's 10k walk has been held in a Games, and the apparent winner, Alina Ivanova was disqualified for a walking violation. The gold was awarded to Chen, who was second.

In tennis, Fernandez beat Manuela Maleeva Fragnerie of Switzerland 5-7, 6-1, 6-0.

"It's a big relief, because you're getting a medal no matter what," Fernandez said. "I think I'll be more relaxed and now play looser and better."

Graf advanced by beating No. 16 Sabine Appelmans of Belgium 6-1, 6-0.

The 16-year-old Capriati, seeded No. 3, beat No. 7 Anke Huber of Germany 6-3, 7-6 (7-1), and Sanchez Vicario defeated No. 5

Conchita Martinez in a duel of Spaniards, 6-4, 6-4.

In the men's singles quarterfinals, Goran Ivanisevic became the first Croatian to clinch a medal, beating Frenchman Fabrice Santoro 6-7 (5-7), 6-7 (1-7), 6-4, 6-4, 8-6.

"All those fighters fighting for the freedom of Croatia are going to be more motivated now, and they're going to try to end that war," Ivanisevic said. "This medal is going to pump them up."

Like the boxers, semifinal losers in tennis automatically get bronze medals.

The Chinese women, meanwhile, swept the diving events for the second straight Olympics when Gao Min defended her springboard title, and the American women were shut out for the first time at any Olympics.

Gao, 21, won the event for a second time, by 58.26 points. The top American was Julie Owenhouse of Howell, Mich., who had rallied to second after her eighth dive but flopped on her final attempt, finishing fifth.

"I went for it. I knew I had missed the dive," Owenhouse said. "But I didn't regret it because if I had not gone so hard for it ... that I would regret."

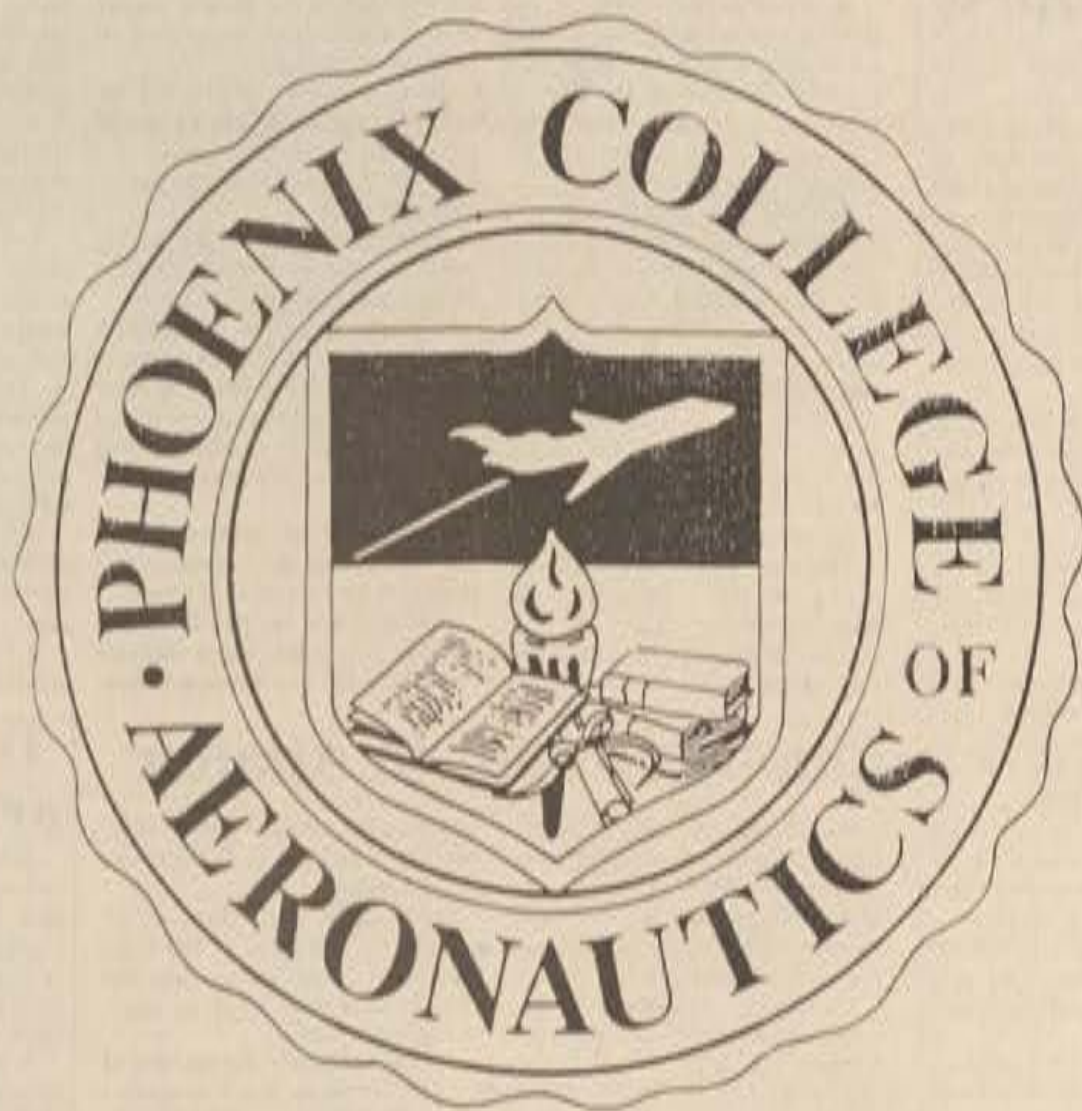
In water polo, the U.S. men's highly favored team won for the third straight time, beating France 11-7.

Maybe the biggest victory of the Games so far, however, didn't involve anyone. On Monday, the IOC announced that all 1,049 drug tests carried out to date in Barcelona have come back negative.

Now, that's a positive.

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