



THE AVION

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A Division of the Student Government Association

Embry-Riddle Aeronautical University Daytona Beach, Florida

For the second straight year, U.S. News and World Report ranked aerospace engineering programs and declared that . . .

Mark Cappello
Copy Editor

Embry-Riddle students concerned as to whether they chose the right university now have one less thing to worry about.

Because No. 1 is exactly where U.S. News & World Report ranked ERAU's undergraduate engineering program — among the nation's engineering programs without a doctorate — for the second straight year in their annual "America's Best Colleges" edition, due to hit newsstands today.

U.S. News & World Report also ranked the University's overall engineering program, which includes seven bachelor's and two master's programs, 14th among the nation's engineering programs without a doctorate, up one spot from last year.

The magazine began publishing rankings in the specific area of aeronautical/aerospace/astronautical engineering last year, and ERAU has topped both lists.

The reason?
"(It's) primarily the long-standing role that ERAU has played in leading the aviation industry," said Barry Benedict,

Chief Academic Officer and senior vice president. "Our reputation is based on the graduates, the quality of the faculty in the program and their visibility in the aviation community.

"We've had faculty members who have been very active in the community and students who have excelled within their companies."

U.S. News and World Report ranked schools in the aerospace category and the overall engineering program category based upon a reputation survey of higher-level deans and senior faculty and administration members at schools accredited by the Accreditation Board for Engineering and Technology (ABET).

The U.S. Air Force Academy placed second in the aerospace engineering category, with California Polytechnic State University-San Luis Obispo and St. Louis University tied for third.

The magazine also ranks overall universities by region, with Embry-Riddle ranked 31st — in the first tier for the second straight year — in the South compared to all public and private universities that offer few or no doctorate programs.

"It's a real compliment to all of the

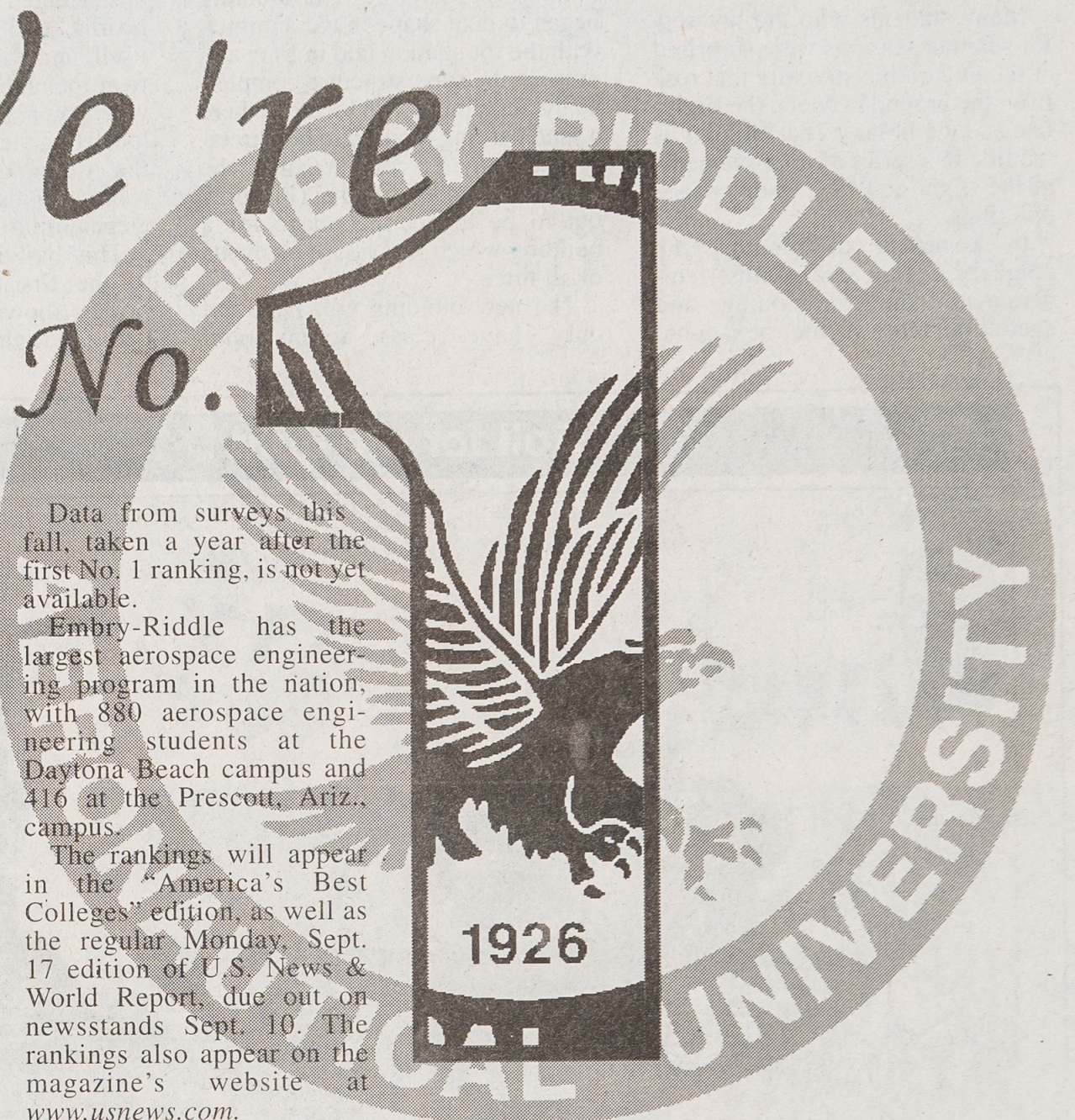
faculty, students and staff," Benedict said.

"We hope to keep moving up in the overall ranking. Everyone at the University contributed, but it's a real testament to the quality of our students and faculty."

According to Maria Franko of Institutional Research, criteria for this ranking included reputation, retention rates of freshman, graduation rates, class sizes, student/faculty ratio, SAT scores of entrants and the percentage of students taken from the top 25 of their class.

Asked whether the rankings and subsequent national exposure for the University had influenced the size of new recruiting classes, Franko said that freshman take a survey in their college success classes (i.e. AE101) in which they answer whether national reputation affected their decision to attend Embry-Riddle.

In the 1999 survey, taken close to when ERAU was first ranked No. 1, ERAU students put more stock in rankings than the national average. Compared to 12% nationally, 24% of ERAU freshman answered that rankings in national magazines were important.



Data from surveys this fall, taken a year after the first No. 1 ranking, is not yet available.

Embry-Riddle has the largest aerospace engineering program in the nation, with 880 aerospace engineering students at the Daytona Beach campus and 416 at the Prescott, Ariz., campus.

The rankings will appear in the "America's Best Colleges" edition, as well as the regular Monday, Sept. 17 edition of U.S. News & World Report, due out on newsstands Sept. 10. The rankings also appear on the magazine's website at www.usnews.com.

Shagfest features free food, prophylactics

Mariano Rosales
Photography Editor

The start of a new school year brings both celebration and excitement. For Embry-Riddle, this year was no different.

To keep with the tradition, the Embry-Riddle Student Government Association played host to this year's Shagfest celebration, held at the Fieldhouse on Monday evening before the first day of classes.

"The Shagfest is a way for the SGA to promote an awareness of safe sex and safety in substance abuse among the Embry-Riddle community," said SGA President Peter Alvarez. "It's also a way to vent our frustrations and have a good time with our friends and classmates before classes begin."

The Student Government worked in cooperation with the Greek organizations to bring an event packed with games, food, music and fun. In addition to the many fraternities and sororities displaying their services, the SGA divisions also had a chance to show the students what they are all about.

"Free," was also a common

word at the event.

"Trojan donated over two thousand condoms for us to hand out," said Alvarez. "We also had free food for all students thanks to Rodney Cruise and Embry-Riddle Dining Services."

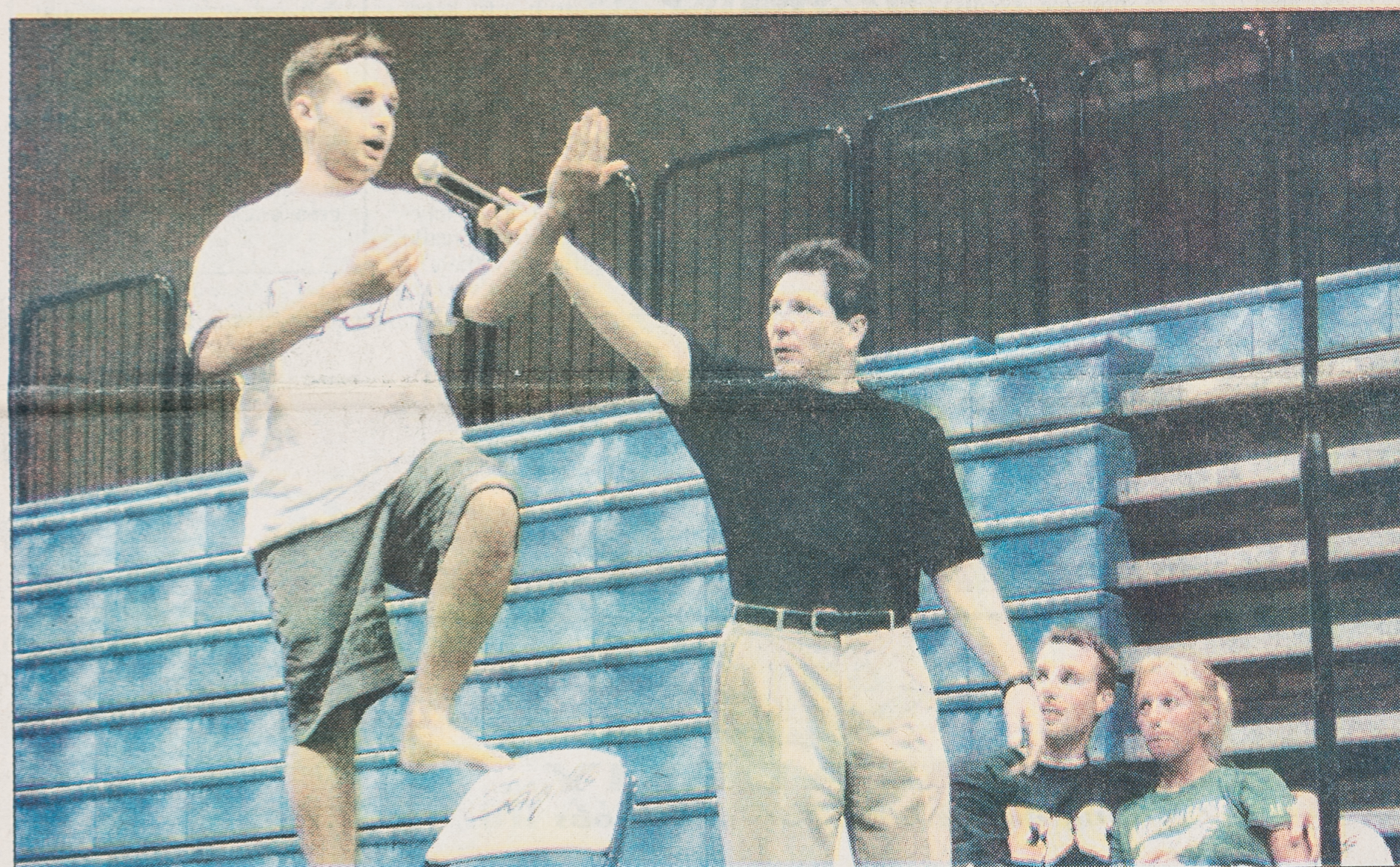
The food tables were a popular spot for the many hungry students. Music entertainment during this event was provided by the campus radio station, 104.7 WERU, another division of the SGA.

Not to be left out, Student Activities, in conjunction with Touch 'n Go Productions, brought the evenings main entertainment. For the fourth consecutive year, hypnotist Tom DeLuca performed in front of a packed Fieldhouse crowd later that evening. DeLuca has been routinely invited back to Riddle because of the immense popularity of his performance.

"I've been doing these shows since the mid 1980s," stated DeLuca. "This is probably the busiest time of the year for me because all the universities are starting off their new years."

This years show had a number of

See SHAG on A3



MARIANO ROSALES / AVION

HYPNOTIST TOM DELUCA ASKS one of his volunteers why he, Bud Chan (Jackie Chan's bigger and badder brother), is the greatest martial artist ever. The night was filled with many more great laughs as Mr. DeLuca charmed his volunteers into thinking they were something they were not. From secret agents to fueding couples, this year's show was a gaurenteed laugh for all.

President's Safety Education Day recognizes ERAU's best

Christian Tougas
Editor in Chief

On Tuesday, September 4, the Flight Department gathered together in the IC auditorium to recognize their brightest and best staff members. The seminar also played host to numerous guest speakers who lectured on important safety topics in the flight community.

Presiding over the ceremonies, President George H. Ebbs handed out awards to those who had gone beyond the call of duty to make ERAU's flight program one of the best in the nation. President Ebbs said that he felt "This will be the best year yet for (the Flight Program)," due to an ideal ratio between flight instructors, aircraft, and students.

The first award went to Team One of the Flight Department; headed up by Ivan Grau. This team was recognized for its superb ability in gathering incident and

accident reports among its students. The team was awarded a \$1,000 check for its efforts to improve safety.

The next major award to be handed out was to a Mr. Ellis Ramirez. Ramirez works for the aircraft maintenance department here on campus and was sited for his attention to detail. While inspecting a Cessna 172, he noticed a fuel stain on the carpet of the aircraft. Upon follow up, it was found that an aileron cable had wound itself around a fuel cable in the fuselage and had punctured the line. Finding this defect averted an almost certain catastrophe.

Another award went out to Jaime Cortez. This instructor had earned the respect of his peers at ERAU's CATER program in DeLand for his overall commitment to excellence in flight.

The rest of the awards were handed out to other members of the ERAU family for their efforts. The ERAU parts team was commended for their hard work in stocking the many aircraft parts needed annually for

repair. Becky Shultz, Anna Marie Wells, Lee Walker, David Levinson, Chris Brown, Sandra Stack, Santiago Terif and many others all received recognition for their abilities and dedication to the flight program here on campus.

The second half of the seminar was dedicated to the further education of our flight instructors. An FAA safety spokesman from the Orlando FSDO spoke on the dangers of multi-engine operations. Accidents involving flight instructor mishaps were talked about, as well as procedures for single engine operations at low altitude.

One accident in particular involved an MEI who failed his students right engine while in right-hand traffic. The aircraft eventually crashed while trying to avoid a Vmc role while turning base to final. The instructor also compounded the problem by failing the right engine through the fuel selector, thus ruining all chances of an

See SAFETY ON A2



MARIANO ROSALES / AVION

PRESIDENT GEORGE EBBS SPEAKS to the hundreds of flight instructors who turned out for the President's Safety Day seminar in the IC auditorium. Awards were handed out to flight staff who stood out among their peers for their commitment to excellence.

Aeronautica

■ Singer Aaliyah dies tragically in plane crash in Bahamas.
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Data Technology

■ When is a "faster" processor really a better processor?
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Space Technology

■ The space shuttle Discovery blasts off for the ISS with its latest payload.
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Student Life

■ Street racing films detail real-life interests.
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College of Aviation takes shape on campus

Summer proves productive on new building construction

Brock Sargeant
Campus News Editor

Many students who did not stay for summer sessions were surprised at the monolithic structure that rose from the ground between the flightline and the library. That building is the first in a series of improvements to the flight and fleet maintenance buildings.

In a matter of months, the uniquely angled classrooms, temperamental air conditioning, and aged concrete of the hexagonal

flightline buildings will be no more. The entire Embry-Riddle campus is slated to have a significant makeover in the next ten years, starting with the aeronautical science buildings.

The first major step of the new campus master plan is already taking place with the construction of the first building of the College of Aviation.

Ground was broken for the new building on March 15. The structure began to take shape in the summer, with the foundation laid in May and most of the superstructure completed by September. It is located where a sand parking lot used to be, directly between fleet maintenance, the flightline, and the library. This turns out to be the perfect place for a building which will house elements of all three.

The new building will have not only have class rooms and

resources for the aeronautical science and meteorology programs, but flight management labs, a teacher resource center, and the dean's office as well. The new building is slated to be complete by late next year.

This first building is only one of three phases incorporated into the aeronautical science program's reformation.

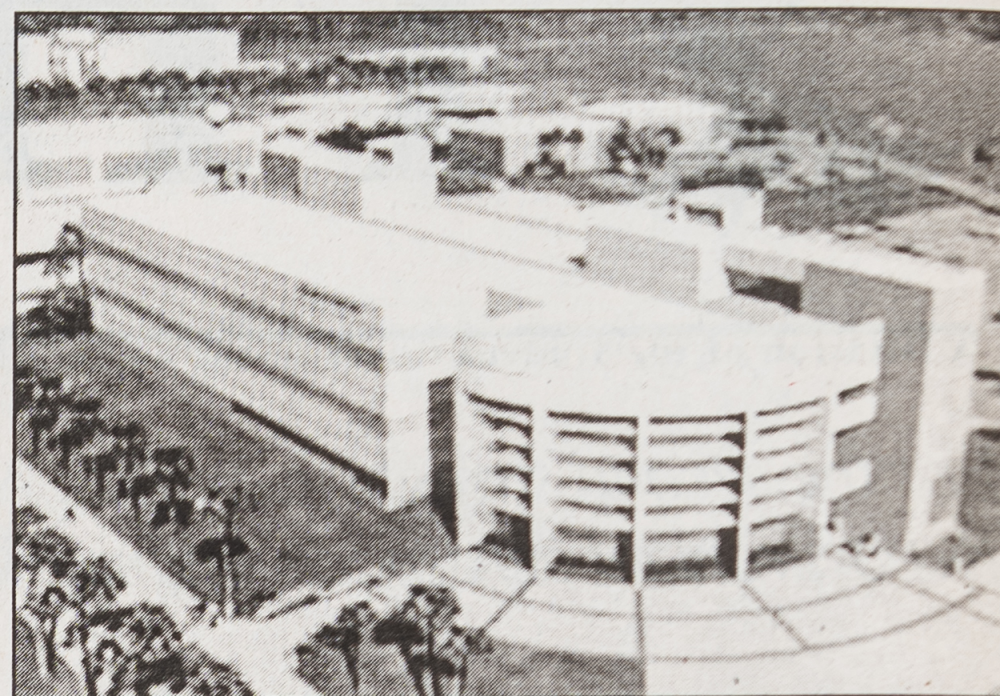
The second addition, still unscheduled but on the drawing boards, will replace the flightline itself, and will be located where the fleet maintenance hangar is now. It will contain all of the elements located in the flightline now such as the flight desk, flight planning room, and instructor bays, in a more elegant up-to-date package.

This building will be connected to the first via a glass-enclosed bridge, allowing much easier access between flight labs and aeronautical

science classes, unlike the near-mile walk to the AWS and ASSL buildings students now endure. These two older buildings, cursed by their distance from the flightline and yet so closely connected to it, will still be used for extended campus classes.

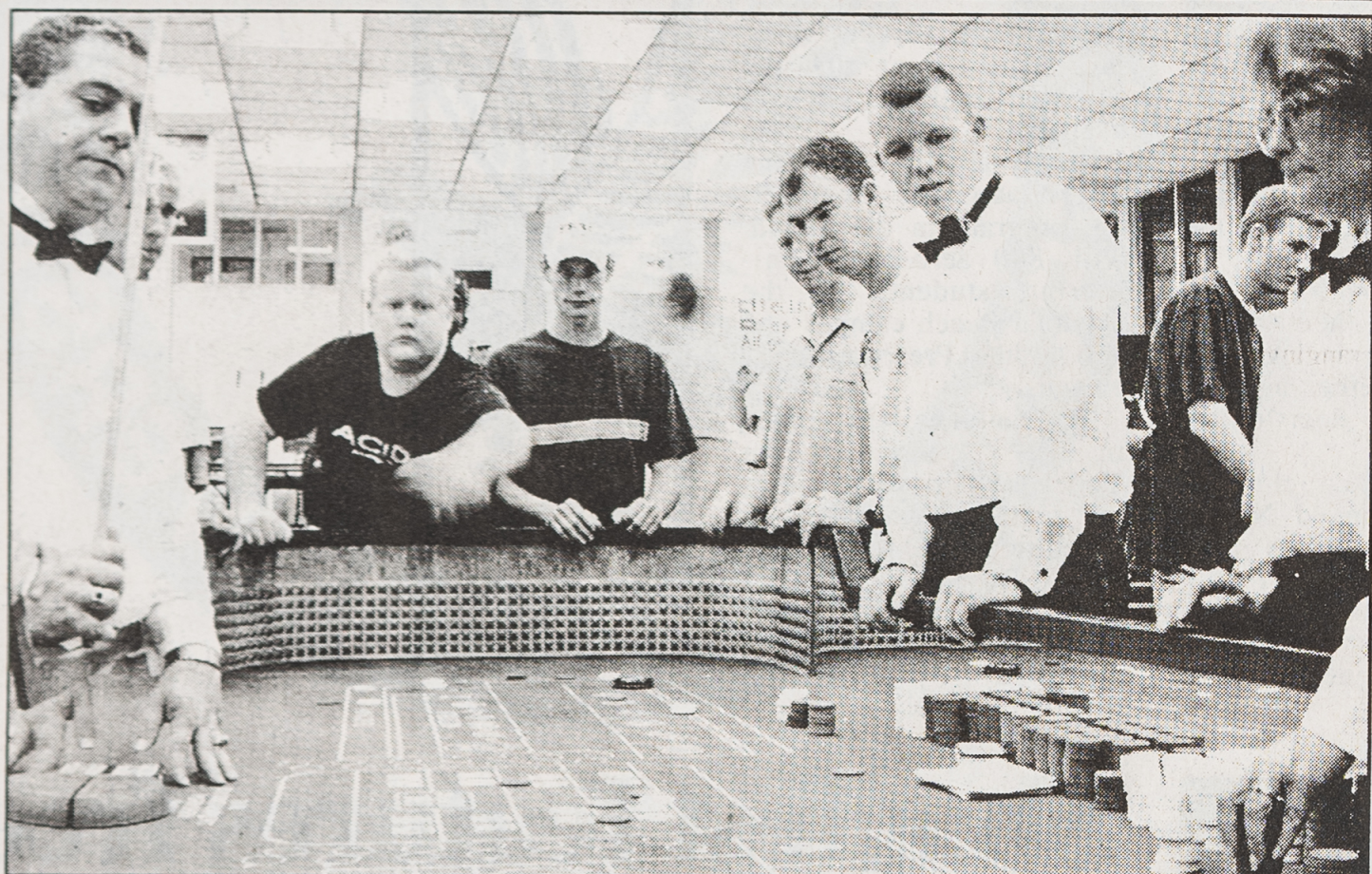
The third and final phase of the project involves the fleet maintenance hangar. The new hangar will be located where the flightline buildings are now, and will be much larger than the hangar is currently, giving it the ability to house jets and other larger aircraft.

The all-important funding for the final two-thirds of the project is still in question, but funding for the first building is complete, having been raised through bonds. Not only will building in phases space out the cost over time, but it will also allow for easier transition from the old buildings to the new.



THE COLLEGE OF AVIATION building as it will look upon completion next year. Contained in the new building will be classrooms and labs for meteorology and aeronautical science classes.

Roll for the gold



MARIANO ROSALES / AVION

STUDENT JOHN YOUNGBLOOD THROWS the dice at the craps table Friday at Monte Carlo Night in the Student Center. The casino games, food, and prizes were sponsored by Lambda Chi Alpha to kick off the new semester. Hundreds of students turned out for the annual event this year.

Channel 3 revamped

LaVerne Davis
ERRSA Communications Coordinator

The new and improved "Channel 3" will go into effect on Monday, September 10th, sponsored by the Embry Riddle Resident

Student Association (E.R.R.S.A.) and the Department of Housing. We will be showing new release movies on a continual basis and will use the time between movies to promote events on campus and increase communication between departments and our residential students overall.

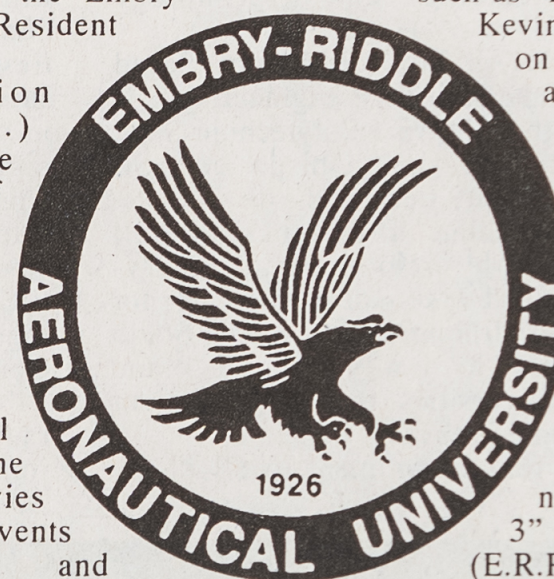
We welcome professors, staff, clubs, and organizations to include announcements, messages, or advertisements at this time. Residents in housing have access to this channel and we

hope its popularity will continue to grow with new movie showings and student awareness videos. Topics such as credit card debt, better grades in less time, and real life experiences such as "Dead Drunk: The Kevin Tunnel Story"

on college alcohol abuse will also be shown at intermission times.

Requests should be made no later than one week prior to your intended start date and be sent to your nearest "Channel 3" drop off area (E.R.R.S.A. office in Tallmon Commons, Housing Department c/o Lissette Jimenez, or Student Activities).

For the next two weeks only (9/3-9/16), we will be accepting forms without the one week advance requirement. If you have any questions, please feel free to call the E.R.R.S.A. office at x8030.



SAFETY from A1

expeditious return to normal flight.

Another speaker, Bruce Lansberry, Executive Director for AOPA, continued the talks about safety in flight with topics ranging from cockpit distractions to separation in the sky.

Mr. Lansberry gave a candid speech about his experiences with distractions and Crew Resource Management (CRM) as the computer technicians worked to fix a technicality in the computer system which stopped him from showing his official presentation. The problem was eventually solved and Mr. Lansberry was able to overcome the distraction and deliver many sound words of warning about VFR flight in the crowded skies over Daytona.

Overall, the ceremony was a pleasant event highlighting all the work that goes into making the flight program a leader in air safety.

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Singled Out

Students pack UC cafeteria for ERAU's version of MTV's dating game show

LaVerne Davis
Communications Coordinator, ERRSA

New ERAU students were filled with excitement piling into the University Center on Friday, Aug. 31, 2001. Over 600 students attended Singled Out, based on MTV's popular game show, hosted by the Embry-Riddle Resident Student Association (ERRSA) under the Department of Housing.

ERRSA would like to give special thanks to Zach Connell for all of his hard work as the Master of Ceremonies and Student Activities for providing the great "munchies" in between their program and Touch 'N Go's Movie production. The game show is mimicked off the hit "MTV" series "Singled Out" where one lucky guy and girl had the oppor-

tunity to narrow down the date of their dreams by asking pre-selected questions to a large number of contestants. The winners had the opportunity to enjoy gift certificates to various places such as Carrabas Italian Restaurant.

ERRSA Programming Communications Coordinator, Mandi Bishop, exclaimed, "I am so happy that our 'Singled Out' MTV-Night went over so well with the students. I hope they continue to support all ERRSA has to offer."

ERRSA would also like to thank Dean of Students, Kathy Deaner, for donating the hottest "Make your own Music Video" company during orientation. This event was a wonderful addition to compliment our Bring Your Own Banana (B.Y.O.B.) Ice Cream



PHOTO COURTESY OF ERRSA

STUDENTS FILLED THE UC for Singled Out, hosted by the Embry-Riddle Resident Student Association. At the end of the contest, Mandi Bishop and Zach Connell, inset, emerged as winners.

Bash. B.Y.O.B. was held on Saturday, Sept. 1st inside the Student Village. Many students had a wonderful time making their own music videos and enjoying the endless ice cream with the variety of toppings in the game room.

Flight students welcomed back

Chris Johnson
Chairman, ASSAB

The Aeronautical Science Student Advisory Board wishes to welcome new Aeronautical Science students and to welcome back those returning. Many exciting things have happened this summer in the degree program. As you may have already seen, the College of Aviation building project is coming along nicely. Many new minors are now offered to Aeronautical Science majors. Pay a visit to the department office in the AWS building to explore your options.

The ASSAB has been hard at work on a few major issues this summer. We have played an integral part in revising the ERAU Flight Operations Manual. Based upon no-show petitions and requests, we hopefully have improved the Flight

Operations Manual for you, the student. With this in mind, **READ YOUR OPS MANUAL!** It is your bible as a flight student at this university.

Meetings times and locations of the ASSAB will be posted soon in the AWS building and at the flight department. In the meantime, be sure to pick up a copy of The Contact newsletter next week. We will have a lot of detailed information about the program in the newsletter. They will be available at the AWS building and the flightline. If you need to contact the ASSAB for anything concerning Aeronautical Science or the flight program, you can call our voicemail at 226-6846. We're also on the web. Check out our website: http://students.db.erau.edu/~assab/ASSAB_Website/ Good luck this year and happy flying.

Award-winning writer to give speech at ERAU

Press Release
ERAU Communications

Florida crime novelist Tim Dorsey will speak on the creative writing process and will read from his novels Thursday, Sept. 13. The event, which is free and open to the public, will be held at 7 p.m. in the L. Gale Lemerand Auditorium in the Capt. Willie Miller Instructional Center. Tampa resident Dorsey is the author of Florida Roadkill, Hammerhead Ranch Motel, and the recently released Orange Crush, which satirizes the Florida electoral process. In the tradition of fellow writers Carl Hiaasen and Elmore Leonard, Dorsey's books combine black humor, mystery, and violence in Florida settings. His debut novel, Florida Roadkill, won the Flamingo Award for 2000, presented by the Florida Chapter of the Mystery Writers of America. Dorsey was formerly a police and court reporter at

The Atlanta Journal and a political reporter and metro editor at The Tampa Tribune.

For more information, call Embry-Riddle humanities professor Steve Glassman at (386) 226-7902.



INTERNET PHOTO

■ SHAG from A1

Embry-Riddle students "voluntarily" doing numerous actions ranging from ballet dancing to alien translations. Many new acts were noticed from DeLuca's shows in the past.

"I try to change my act as often as I can," stated DeLuca. "It sort of depends on what I can remember at the time."

For those participating in the show under DeLuca's suggestions, the evening seemed rather uneventful.

"All I remember is counting backwards from three hundred, and then having to stand up and say my name," stated student/volunteer Brian Lutz. "People keep telling me I did some funny stuff but I don't remember that."

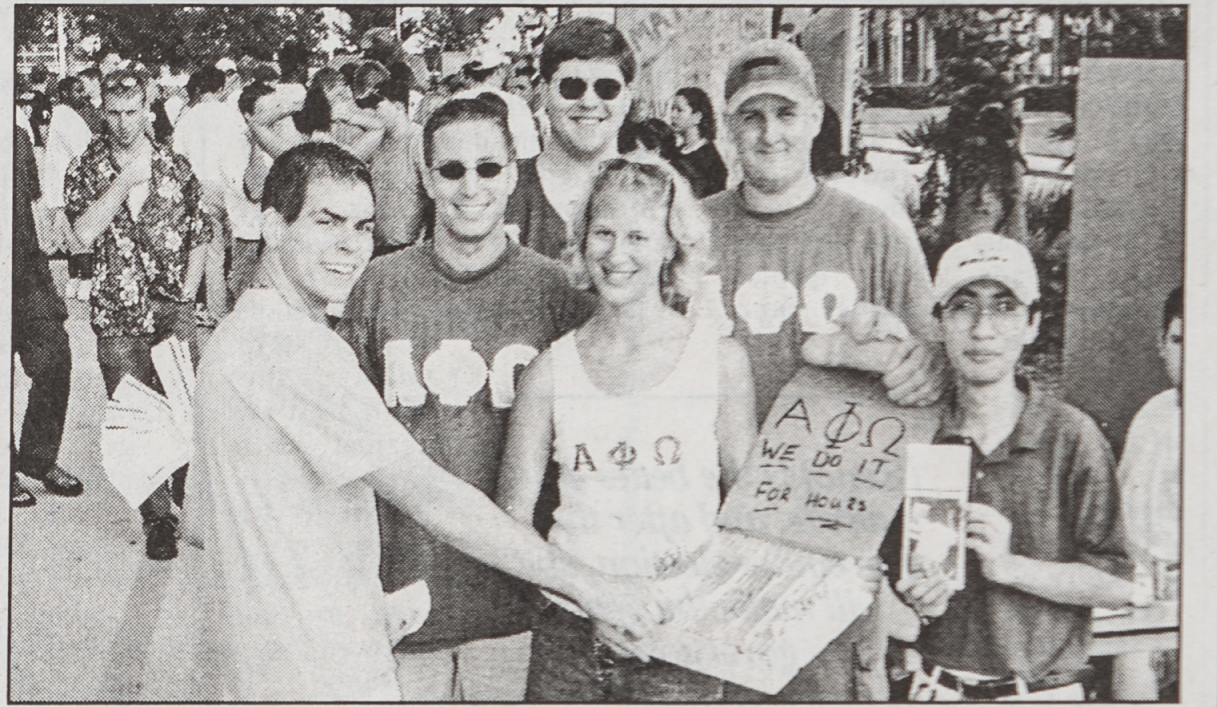
The Shagfest, according to Alvarez, is only one of the many services the SGA provides for the Embry-Riddle community.

"Right now we are implementing a new Safe Ride program for active students," said Alvarez. "We will also be holding a Town Hall Meeting to allow students to address their concerns with the

school and administration."

This Town Hall Meeting will be held on the Flight Deck on Wednesday, Sept. 26.

Concluded Alvarez, "The event had an excellent turnout and great involvement with the students. Overall it was a superbly coordinated SGA activity."



MARIANO ROSALES / AVION

MEMBERS OF ALPHA PHI Omega show off their stash of condoms, hoping to entice potential freshmen into their fraternity. Prophylactics, food, and fun abounded at this year's Shagfest celebration.

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Editorials

Whoever said condoms were safe?

Mark Soppet
Special to Avion

He's tough. He's durable. And he'll protect you from pregnancy and sexually transmitted diseases. He's Trojan Man, and he's your answer for safe sex. Right? Well, no. Even though a condom, when used correctly, is effective in preventing pregnancy, the chance of the condom failing to prevent the spread of disease is as great as 20%. Having sex with a condom is the same as playing Russian roulette: the odds of getting an STD are the same.

In July, the Centers for Disease Control released a study on the effectiveness of condoms. The CDC discovered that condoms do not provide consistent protection against chlamydia, syphilis, gonorrhea, and herpes.

Furthermore, condoms are ineffective in protecting against Human Papilloma Virus, which causes cervical cancer. And the condom is downright impotent in protecting against scabies.

If condoms are that ineffective, then why does Embry-Riddle promote them so aggressively? The condoms were tossed out by the gross at the Freshmen Risky Times assembly. Student Government Association was giving out condoms at the appropriately named Shagfest. Surely the school and the SGA aren't

conspiring to give us all herpes, right?

Well, they've fallen into the trap that many other institutions

have. They just don't trust young people to make responsible decisions about sex. So instead of preaching abstinence, they appease the wishes of the students by telling them that they

can have sex, as long as they play by the school's rules.

To the school's credit, it doesn't actually thrust the use of condoms on students. The University of Illinois, for exam-

ple, includes a monthly supply of condoms in each student's tuition bill. And, under some circumstances, a condom does work well if it is used correctly.

But what does it mean to use a condom correctly? Do most people keep the condom in a cool, dry place? Do they use a spermicide with the condom? Hardly. It's funny that schools will trust young men to use a condom correctly when they won't trust them to abstain from the risky behavior in the first place.

The legend of Trojan Man is just like other legends. It has roots in the truth, but the story as a whole is false. It's silly to believe in legends like King Arthur. It's dumber still to believe that Trojan Man will protect us from the dangers of premarital sex.



INTERNET PHOTO / WWW.TROJANCONDOMS.COM

Reno next Florida Governor?

Ryan Jones
Special to Avion

Florida politics are insane and heated. The 2002 governor election will be no exception. Janet Reno has recently announced her intention to run for the Democratic nomination.

At first, this sounds like outright lunacy. The former Attorney General carries more baggage than a 747. Can she really stand a chance against the President's brother? The answer is absolutely. If you believe that there is no such thing as bad publicity, then Reno is the clear winner.

People like Jay Leno frequently poke fun at Reno's apparent masculinity, but this will change now that she has been diagnosed with Parkinson's. No one will want to be accused of verbally thrashing a 63 year old woman with a disability.

Jeb Bush and the Republicans will incessantly bring up Elian Gonzalez, Waco, and the Clinton presidency to discredit Reno's past performance. However, this makes people perceive them as the bad guys.

Janet Reno has faced a multitude of challenges as Attorney General. There has never been any true right answer to the Elian Gonzalez paradox.

Most rational people agree with her position that the boy should grow up with his father. Furthermore, the Waco siege could not have ended without additional bloodshed.

Only Montana cabin-dwellers vehemently hold this atrocity against her. Hardcore Right-Wing Conservatives would never vote for her anyway.

Reno is smart, strong, and always serious. She knows how to tackle tough

"[Reno] is the better candidate, and after the November election, she will make the better governor."

—RYAN JONES

Bush bashing on campus

Mitch Widham
Special to Avion

While walking through Academics (2nd Floor A Bldg.) the other day I was shocked to see a bulletin board dedicated to belittling the President of the United States.

The bulletin board contains anti-Bush political cartoons, anti-Bush e-mails, and liberal commentary that is unintelligent, unfounded, and poor in taste.

I feel that this one-sided liberal view goes against the University's stated policies for academic standards which says in part, "To provide intellectual stimulation, ensuring that students are broadly educated, and to empower students to make

informed value judgements, to expand their knowledge."

I also feel that the education received at a prestigious private University such as ours should base its curriculum on facts and founded science with a forum for intellectual debate, not on cartoons and liberal bias.

Webster's Dictionary offers several definitions for the word 'Academic.' One is "Relating or belonging to a scholarly organization," which we should be.

Another definition reads, "Theoretical or speculative without a practical purpose or intention," which I am afraid we have become.

Mitch Widham is a Patrol Officer with the ERAU Safety Department.



Balancing judgement for slain student

Staff Editorial
George Washington University

(U-WIRE) Washington--He murdered 19-year-old George Washington University student Jonathan Rizzo and two other men in a multi-state New England crime spree. He confessed to the crimes and has shown no remorse. He is unrepentant and definitely guilty. Gary L. Sampson is the perfect candidate for execution.

But Massachusetts, the state where Sampson killed Rizzo and 69-year-old Phillip McCloskey, has no death penalty. Instead of trying him in state, state prosecutors are transferring the case to federal court as a means to secure an execution.

Individual state officials are attempting to circumvent the will of the people and the laws of Massachusetts. Sampson should not be executed -- although he richly deserves that consequence for his heinous actions -- because the laws of Massachusetts do not provide for that punishment.

The state of Massachusetts has decided repeatedly not to reinstate the death penalty after a national hiatus, which began in 1973. Most recently, a vote in the state legislature in March defeated a bill to

reinstate the death penalty.

There is no provision for murder in federal law unless that murder occurs on federal property, against a federal official or while the victim is engaged in a federally protected activity such as voting. Murder is and always has been a state crime. But state and federal prosecutors want to charge Sampson under the 1994 federal anti-carjacking statutes, which can incur the death penalty.

State officials handing over criminals who commit state crimes to their federal counterparts are blurring an important distinction between state and federal power.

Part of the concept of justice and the rule of law is the idea that laws in effect at the time of a crime cannot be manipulated to fit circumstance or increase a punishment. Massachusetts does not provide for capital punishment. If state officials seek such an outcome, they would ultimately deny justice to the accused in this case and future ones.

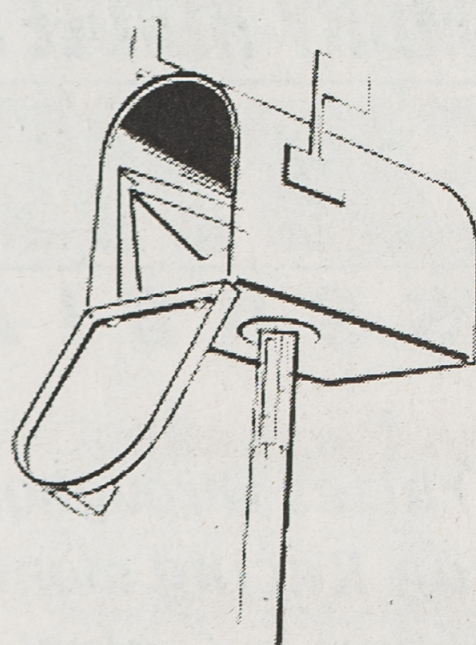
While emotionally jarring crimes such as the ones Sampson committed against his victims bring all who want justice to call for severe action, states must uphold the credibility of their legal system first.

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opinion that you just
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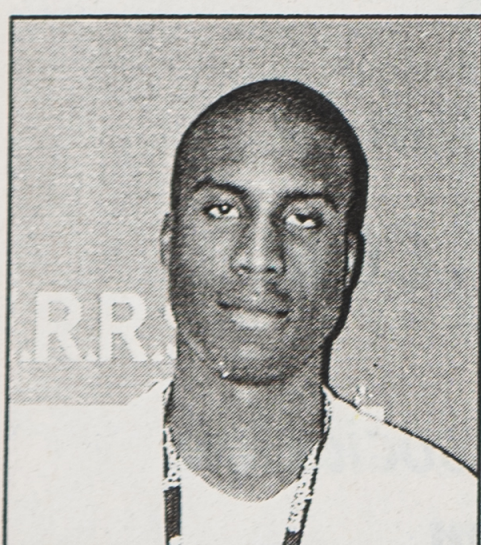
avion@avion.db.erau.edu, or stop by the office
-- located in the U.C. next to the SGA Office.



Student Forum

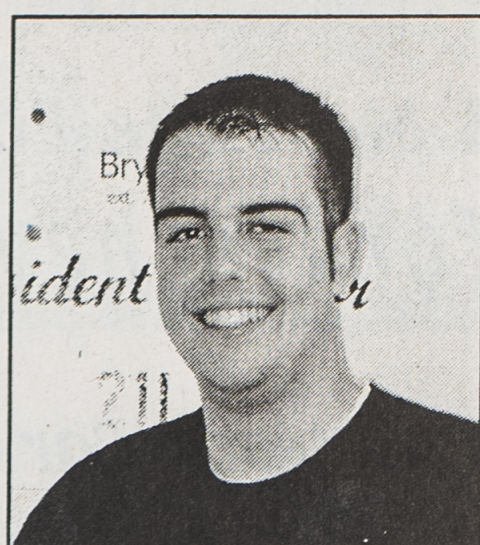
The Avion Asks: With the start of a new semester, what are your personal or scholastic goals?

— compiled by Lindsey Sanders



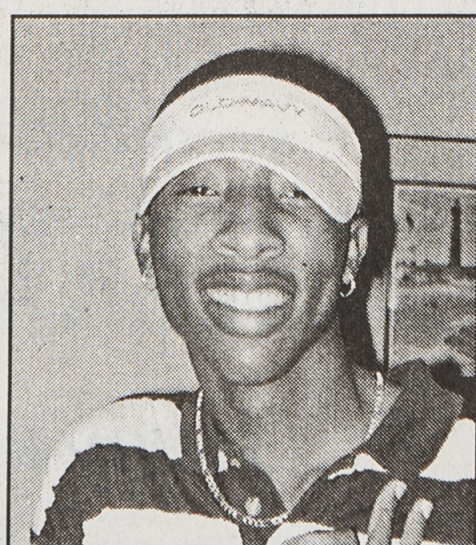
Darrin O'Brady
Freshman
Meteorology

"To get through all of my classes with the best grades, make a lot of contacts, and to get a job to pay for all of this crap."



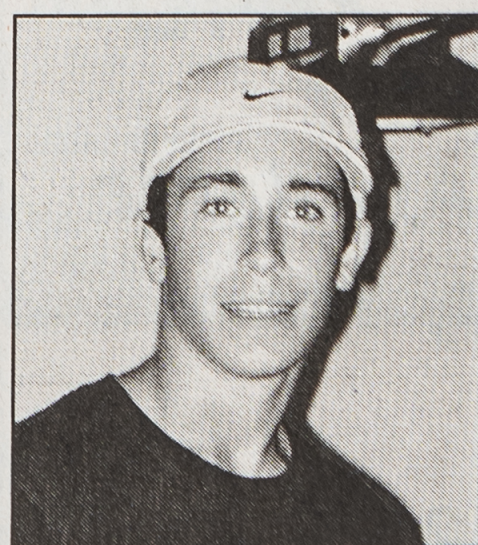
Bryan Martini
Sophomore
Aeronautical Science

"To get good grades and all of that good stuff."



Edmund Otubuah
Senior
Aviation Bus. Admin.

"To get straight A's because I've never done that before, and to get no parking tickets. Show the world why the NUPES run this yard."



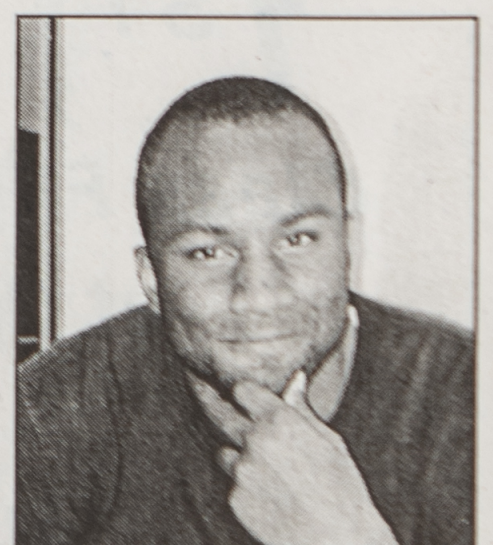
Ben Szutar
Freshman
Engineering Physics

"I want a 3.5 GPA so I can look good on my ROTC applications. I want to be elected on the ERRAS general board."



Suzanne Inglis
Freshman
Aerospace Studies

"To get acclimated with the school and do well in my classes, and to make new friends."



Brandon Edmonds
Junior
Computer Science

"To survive this semester because this will be the hardest semester so far."

THE AVION

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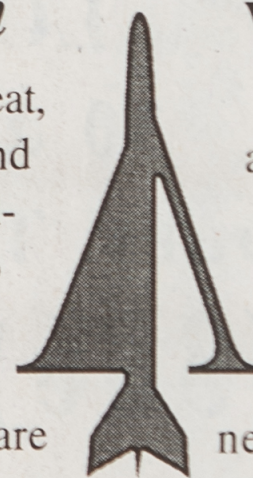
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Christian bands rock Universal Studios



OVER 40,000 FANS WORSHIPPED during the "Rock the Universe" celebration held at Universal Studios this weekend.

Crystal Passman
Special to the Avion

This past weekend, Sept. 7 and 8, young adults invaded Universal Studios adorned in tattoos, piercings and t-shirts that stated their beliefs about the world. They were not there to protest or riot, but to worship their God.

The leading artists of the Christian music industry were all there: Newsboys, Audio Adrenaline, DC Talk, and P.O.D. They were accompanied by rising artists such as Scarecrow & Timmen, SON-ICFLOOD, Relient K, Skillet, Earthsuit, Caedmon's Call, Pax 217, Nicole C. Mullen, and Paige.

Each band had its own style, but all had the same message:

"Love God with all your heart, soul, mind and strength, and love one another as you love yourself."

The crowds cheered in agreement. Glow sticks were everywhere and the most popular T-shirt read "Satan is a Nerd."

Despite the pouring rain, fans refused to leave. Some gripped umbrellas tightly, while others opened their mouths towards the sky and took in the rain like it was a fountain.

Concession lines were, as expected, long, but no one seemed to mind. Most were too busy talking with fellow Christians — finding out where they're from, their denomination and how long they've known the Lord.

At 10:30 p.m. Friday night,

Toby McKeehan from DC Talk took the stage to start his set. As soon as the music began, the crowd jumped and cameras flashed.

"How many of you are Jesus freaks?" McKeehan yelled to his audience. They screamed in response, only for him to repeat his question, "I said, how many of you are Jesus freaks?!" The noise of the screams became deafening.

A crowd member said that her favorite part of these gatherings, other than seeing and hearing some of her favorite bands, was knowing that she was safe at the event.

"I know that no one here is going to hurt me, at least not on purpose. And everyone here loves God just as much as I do."

Groups would stop cheering in the middle of a concert and start praying for their generation. They asked their God to use each of

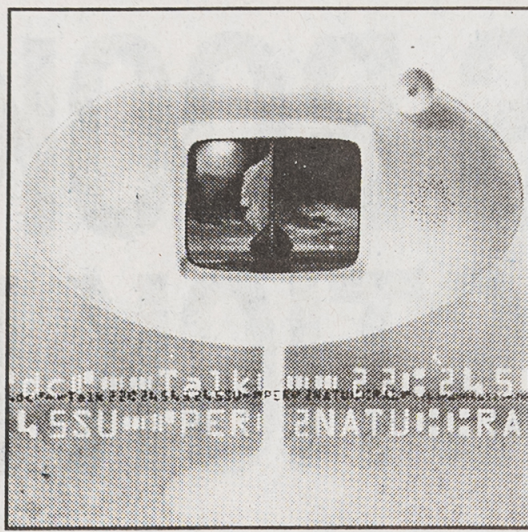
them to reach someone else, and that our world would not forget Him.

P.O.D., a heavy metal band, started their performance with a prayer. They thanked their God

for their talent, their life and their loyal fans. After every song, the lead singer Sonny asked, "Is everyone alright? Is anyone hurt? Remember, show some love — every time you get pushed, don't push back. Think about the brothers and sisters around you and keep them safe."

Every show was ended with a praise and worship song.

Gary Downey, a 19-year-old student from Georgia Tech remarked, "I drove seven hours to be here. I wouldn't have missed this for the world. It is one of the few times in your life when you can hear some of your favorite bands and worship God at the same time."



... I wouldn't have missed this for the world ...

— GARY DOWNEY

The need for speed

Crystal Passman
Special to the Avion

The recently released movie *The Fast and the Furious* brought to light the increasing popularity of the sport of car racing. The movie stars Vin Diesel, Paul Walker, Jordan Brewster, Michelle Rodriguez and Matt Schulze.

Paul Walker plays a cop who's up for a promotion. First, he must solve a case involving the highjacking and looting of trucks carrying DVDs and sound systems. The FBI suspects that ille-

gal streetcar racers are involved and sends Walker's character undercover to investigate. But when he gets involved with Dominick (Vin Diesel) and falls in love with his sister Mya (Michelle Rodriguez), he must choose between his new family or his career. The movie is packed with fast cars, good music and great action scenes.

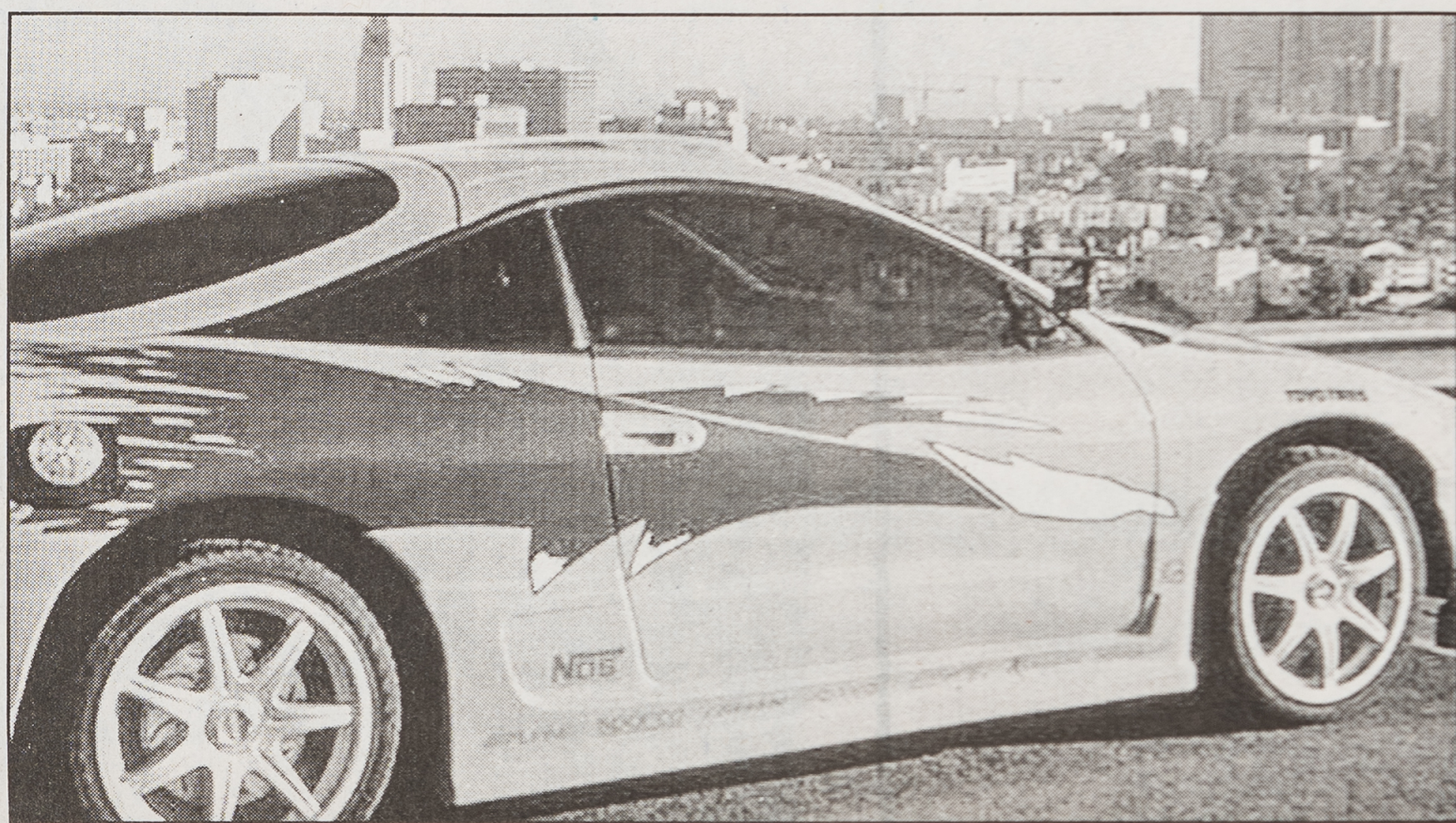
Street racing, although illegal on domestic roads in the United States, has been taking place for over 50 years. Also, cars containing nitrous oxide or tires called "slicks" are illegal. In

some cities however, police simply monitor the activities, choosing only to intervene when people or the cars get out of control. In San Diego, the police have a "if you can't beat them, join them" policy. Every Saturday night the city opens up the stadium parking lot and cars can come race each other, or even the police.

Last Sunday, Sept. 2, 40 people were arrested for street racing in Orlando and two hundred people received tickets for observing the illegal activity.

Fortunately though for the Embry-Riddle Muscle Car Association (ERMCA), and other automotive clubs, the state of Florida allows such organizations but not street racing.

So, if you own a fast car or you're just an enthusiast, two clubs on campus including ERMCA and the Sport, Compact & Import Car



INTERNET PHOTO / WWW.THEFASTANDTHEFURIOUS.COM

ALTHOUGH INSPIRED BY STREET racers, the makers of the movie *The Fast and the Furious* are now setting precedents in graphics for street racing enthusiasts, as seen by this Toyota Supra pictured above.

Club, formed last year to accommodate the import enthusiasts, are looking for new and return-

ing members. Look for their booth at the upcoming Activities Fair, Sept. 19. And check out

ERMCA's ad on page A3, or contact them at ERMCA@hotmail.com.

SGA CORNER

From the Prez

To all new students, Welcome! For those of you who are seniors and are graduating this year, Congratulations! As for the rest of us stuck somewhere in the middle, well, we'll just pretend Spring Break will be here soon.

Over the past months, changes have taken place around campus — many that will totally change the course of time and space . . . Alright, maybe the changes aren't that big, but your Student Government Association (SGA) has definitely been hard at work.

Besides the recent construction and redecorating, much effort has been put forth to improve existing services and to initiate new programs throughout our campus.

Our entertainment and publication divisions, including the Avion Newspaper, the Phoenix

Yearbook, WERU Radio Station and Touch-N-Go have all been working diligently to produce a higher quality of service for you this year.

Some of the more notable projects include the Beach Boys performing for the Wings and Waves Homecoming celebration on Nov. 10, new release movies playing on Channel 3, a revamped SAFE RIDE card program and soon-to-be-initiated Low Power FM Broadcasting for the radio station.

Be sure to check here each week to get the latest on issues that affect you. You can also stop by our office (second floor Student Center) during regular business hours to share your input and ideas. I can't wait to meet you!

CD Review

Preston School of Industry album keeps the sound of Pavement alive

Ethan Kent
Copy Editor

Band breakups run the gamut, from amicable and expected to hostile or even pyrotechnic. Occasionally, such as in the case of Uncle Tupelo's split into Wilco and Sunvult, several former band members each go on to release albums well received by fans of the now defunct band.

When indie-rock pioneer Pavement fizzled out last year after more than a decade together, founding members Stephen Malkmus and Scott Kannberg began work on their own projects.

Malkmus, who sang and wrote most of Pavement's music, released a self-titled CD early this year with his new band the Jicks. Meanwhile, Kannberg (AKA "Spiral Stairs"), worked on a record of his own.

Kannberg rounded out his new band, the Preston School of Industry, with drummer Andrew Borger and bassist Jon Erickson, and began recording *All This Sounds Gas* in former Pavement drummer Gary Young's Louder Than You Think studios.

Preston School of Industry is named for an unreleased Pavement song, in turn named for a reform school in the foothills of California to which Kannberg's parents threatened to send him if he did not behave.

All This Sounds Gas sounds like Pavement, especially the songs scattered across the Pavement catalog penned and sung by Kannberg—songs like "Two States" and "Kennel District."

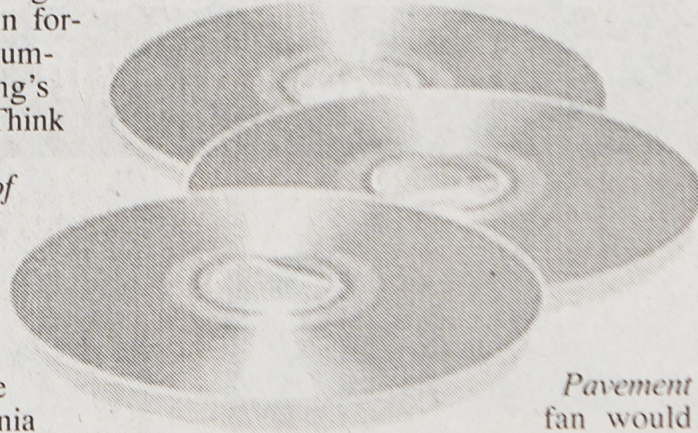
At times, the resemblance

seems forced, such as in "Encyclopedic Knowledge Of," in which Kannberg says in his most apathetic, Malkmus-esque voice, "How does an agoraphobe buy underwear/by internal compass..." It's nearly enough to ruin an otherwise pretty good song.

In fact, Kannberg sings and plays in an off-key, sloppy manner, reminiscent of Pavement to the extent that if he had not helped found Pavement, he would be accused of ripping the band off. The CD differs from Malkmus', however, in that it evokes the earlier work of Pavement, sounding more like *Slanted and Enchanted* and *Westing by Musket* and Sextant, than the Stephen Malkmus CD, which sounds like a follow up to *Terror Twilight*.

The song "Falling Away" is an example of Kannberg's capability, and dispels the notion that he lacks talent, or merely impersonates his old band. The album stands on its own, but just barely.

It is doubtful that a non-



Pavement fan would enjoy the CD. Overall, although the album borrows heavily from Pavement, it does not cheapen the band's legacy.

All This Sounds Gas demonstrates that while Malkmus was the driving force behind Pavement, he was not the band's only talent.

SIGMA CHI

Chris Ferguson

Well doesn't it feel good to be back at Riddle for another year? The brothers at the Sigma Chi house have been celebrating for the past two weeks. It's good to see many of your brothers again after a long summer vacation.

It's always nice to find out that RoadRunner can ballet dance, especially in front of the whole school. Hank Hill has moved to the country club out back and has already personally met a few of his neighbors. We want to welcome back Lawn Dart with an expected graduation date of 2008. Shooter is the newest guest at Holiday Inn. Jimminy has a fetish with lawn mowers and weed whackers once the sun goes down.

Seems the walk of shame has relocated to a different room along with Stripe. We are expecting a sparkle in both Alter Boy and Sweetchucks' eyes, since Alter Boy has moved into the house. Chesta has finally hit puberty, and is not letting anyone miss it. Sunshine is a lot brighter, now that he has found his Snuggle Bunny.

We plan on having a great semester, with many socials and great experiences. A great rush is expected to start soon. We look forward to many fun activities and times with rush. So be prepared for a great week. It looks out to be a great semester.

We hope to see many freshmen out for Rush.

ALPHA ETA RHO

Nick Lorenzen

Welcome back students! I'm glad to report that all the brothers made it back to school in one piece. Brother Millhouse almost lost his arm after falling off a mountain, and I almost lost my head while taking a little nap after I jumped out of an airplane at 13,500 ft and woke up on a taxi way. Also Brother Curious G. finally came back after running away with the carnival for the summer.

Alpha Eta Rho is a professional aviation fraternity for both men and women whose purpose is to further the cause of aviation in all its branches, to install in the public's mind a confidence in aviation, to promote contacts between students of aviation and those engaged in the profession and to promote a closer affiliation between students of aviation for purposes of aviation and research.

Stop by and check us out on Tuesday, Sept. 18 at Meet the Greeks from 5-7 p.m. in the Student Center. On Wednesday, Sept. 19, join us for FREE wings, drinks and a game of pool at Houligan's. Thursday, Sept. 20 is our Business Meeting at 7:30 p.m. in the Spruance Hall Conference Room. Meet us Friday, Sept. 21, outside the Student Village at 6:30 p.m. for Go Karts. On Saturday, Sept. 22, we'll fly you to Skydive Deland at the Deland Airport for some hamburgers and hotdogs, and that Sunday is First Interviews at 12 noon.

If you have any Questions about AHP Rush, contact Justin at 947-9953. Hope to see everyone there. Check out Alpha Eta Rho, Epsilon Rho Hangar's new web site: www.alphatarho.com. Tailwind from the Brothers of AHP!

Peter's thought of the week . . .

"don't ever forget why you're here."

When is baseball over?

Christopher Kemmerer
Sports Editor

In a mediocre summer of baseball, fans saw a team play phenomenally well, and the rest of the league play well above par. That means bad to all you non-golf fans. The whole National League played like a bunch of rookies throughout the summer, leaving many die-hard fans asking, "When does football start?"

The summer was rough if you expected any excitement. The only excitement was the Mariners, who surpassed all the teams in big league baseball by far.

There is also a man by the name of Barry Bonds who is threatening the home run record of 70 set by Mark McGwire a few years ago. This year, the question of who will be this year's Home Run King has fizzled into snide remarks about the threat.

When Mark McGwire and Sammy Sosa made baseball fun in their pursuit of the title and the new record, they brought fans into their baseball lives. This year, Mark McGwire has been plagued by injury, still hitting home runs; but, if not - striking out. Sammy has been successful, but not on top. Unfortunately, Bonds has been on top and has forced the media to try to get a glimpse into his head.

Press conferences seem to be very bland and questions and answers are very routine. The man is entitled to not be so outgoing with the media, but unfortunately his lack of public enthusiasm has made fans apathetic about his desired feat of 71 or more. Bonds, relating to issues with the media and his fans, is described in 2 words; generally cooperative.

Either way it is undeniable that the man is a great power hitter. It's a big issue in professional sports today. Would you trade in your personal record (home run king, Cy-Young Award) for a pennant, or better yet, a World Series Title?

Another annoying fact about baseball in the 2001 season is the state of the National League.

They have not produced a team comparable to the American League, as shown in the Wild Card race. The National League has five teams in the hunt for the Wild Card that are five games or closer to the top.

At least there is a little action going on as September rolls along closer to the post season. The only good thing about having so-so teams in the league is that at the end of September there should be more than a few teams fighting for first place or the Wild Card. These facts are probably what is keeping fans in tune with what is going on in the standings.

Too little, too late? Perhaps the defending National League Champion New York Mets have waited too long to come out of their five-month rut. They have won seventeen out of their last twenty-one, and will come head to head with division leader Atlanta Braves for six games this season. Anything could happen.

The slow start of the Oakland Athletics had many fans questioning what the season would bring them. They seemed to show signs of being a benign threat to the American League contenders, but have been the best team in baseball since the All-Star break. They have the Wild Card spot locked up with a nine-game lead. Too little, too late?

The team is way back in their

division, but that's because the first place team is the Seattle Mariners. Maybe that would be different if the Athletics came out stronger in the beginning, while the Mariners ran away with wins.

The American League best, Seattle Mariners are about 17 games in front of the next best team in the American League. But who will go to the post season? The Mariners definitely, and the Athletics are set as well.

Is there any way to tell which team is best in each league to move on to post season play, or is luck the deciding factor when teams are all tied a game back from the Wild Card? And better yet, will the Mariners go all the way? Probably not. Baseball is great, but don't look for any storybook endings.

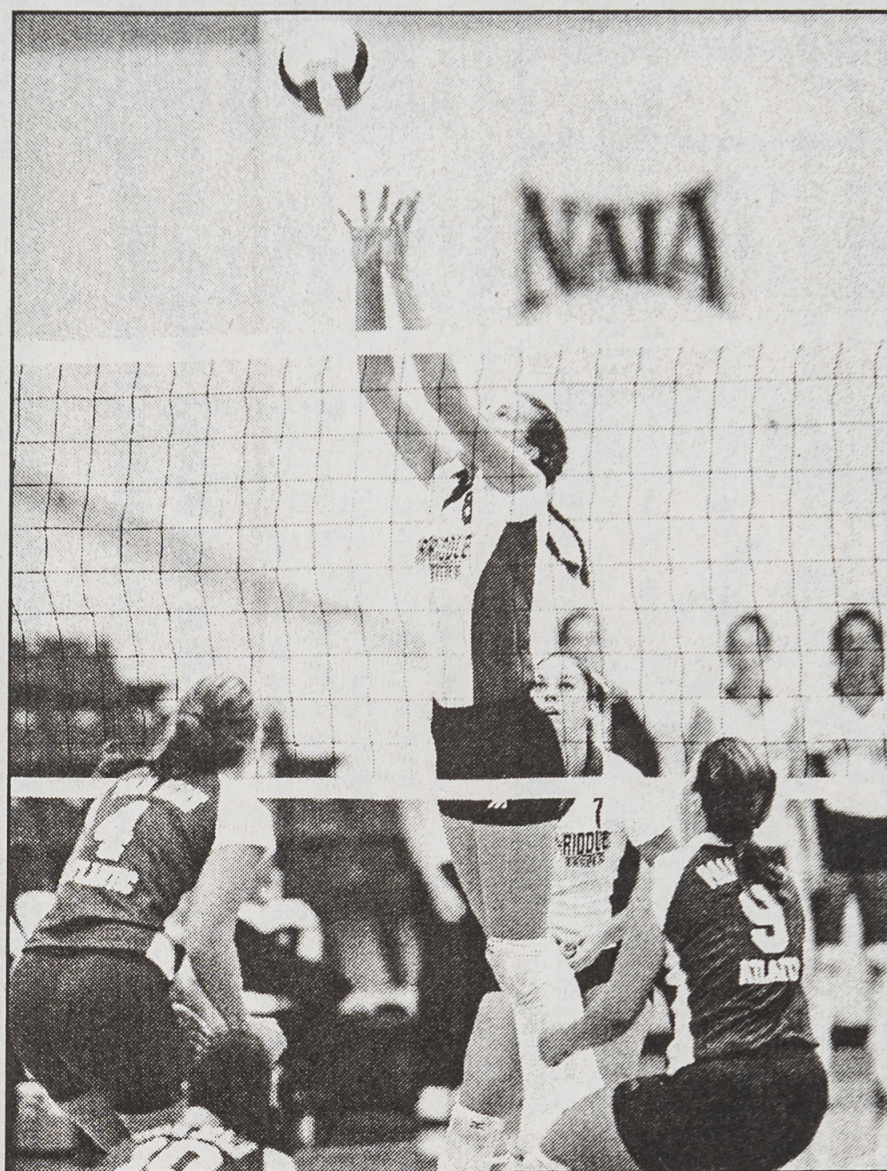
The Seattle Mariners have great talent in their pitching and offense, but look for the Athletics to play against the Apopka Little League All-Stars for the World Series title.

Baseball this season has been interesting, especially since it has not been exciting for the past five months. Now that the end of the line is near, hopefully fans will look at what is exciting in the league and have hope that the playoffs will be exciting as well. Sorry, but don't look for any Subway Series this year.



DON'T FORGET THE CLEVELAND Indians and Roberto Alomar, big threats in this year's post season play. Alomar is hitting around .337 and having one of the best seasons of his career.

Volleyball season kicks off...



THE VOLLEYBALL TEAM took on Florida Atlantic Thursday night at the Fieldhouse. They lost 30-22, 30-24, 30-26 against the Sailfish.

Men's Golf holds tryouts

Tom Vickers
Avion Advisor

The ERAU Men's Golf Team held tryouts September 5, 7 and 10 to select the ten players who will represent the University in the NAIA's Florida Sun Conference.

Five members of the team will play at the U.S. Air Force Academy Invitational Golf Tournament, held September 12-16 in Colorado Springs, CO.

"This is our first trip to the Air Force tournament, and we're really looking forward to playing well in our first event of the fall season," said Coach Tom Vickers.

Coach Vickers will accompany the team on the University jet to the season opener.

The names of qualifying team members were not available at the time the Avion went to press, but leading scorers after the first day of qualifying were Andy Brigman, 72; Ben Van Someren, 74; and Lee Barthold, 75.

Eagles lose season opener

Press Release
ERAU Athletics

A goal by Stewart Hudspeth in the 89th minute lifted Cumberland to a 3-2 victory over the Embry-Riddle men's soccer team Friday at the Ormond Beach Soccer Complex. With the loss the Eagles fall to 0-1, while the 22nd-ranked Patriots improve to 3-0.

The Patriots netted the first goal of the match courtesy of Clint Gillis, who scored with

two minutes remaining in the first half. Twelve minutes into the second half, Embry-Riddle senior Manuel Cerrato was brought down in the 18-yard box, giving the Eagles an opportunity for a penalty kick. Phil Murray scored on the penalty, bringing the game to a 1-1 tie.

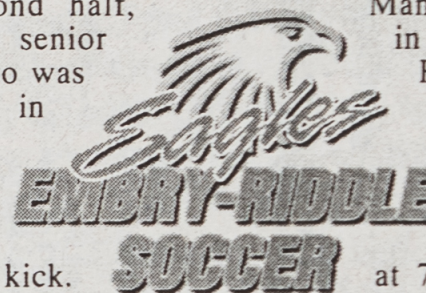
The deadlock was broken in the 60th minute when Jack

Jones scored off a Paul Buckley cross. The Patriots' Matt

Mann scored the equalizer in the 78th minute, and Hudspeth followed with the game-winner with one-minute left in regulation.

The Eagles return to action on Sunday at 7 p.m. when they host

North Florida in a game originally scheduled for September 5. That game will take place at the Ormond Beach Soccer Complex.



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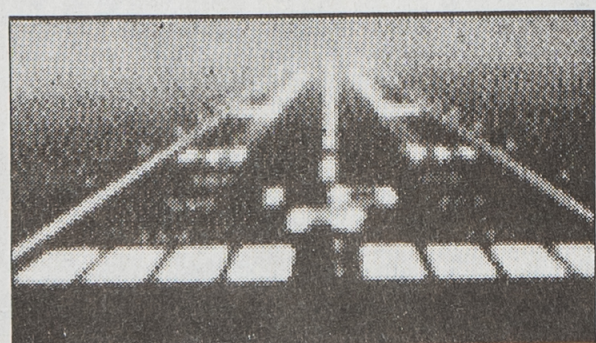
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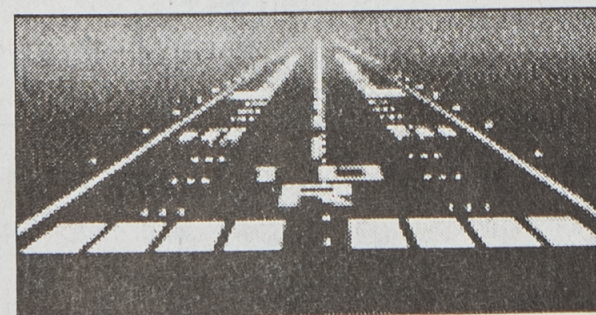
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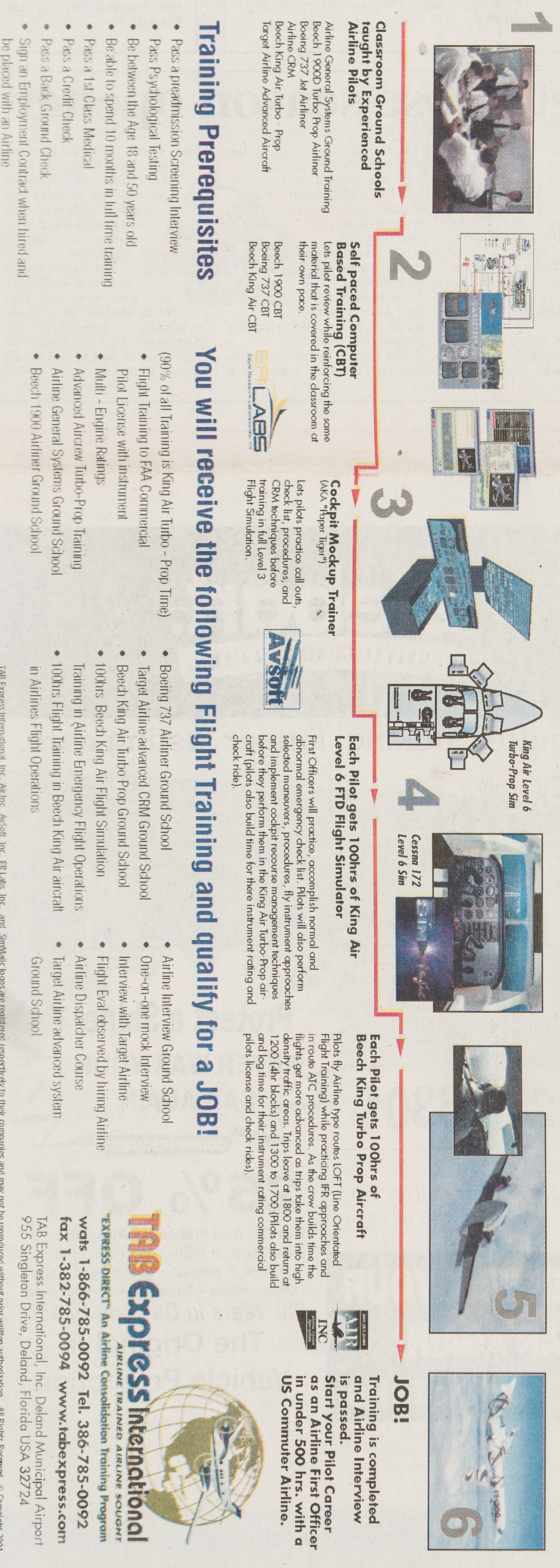
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AERONAUTICA

The Avion, September 10, 2001

Classifieds B7
Comics B6
Space Technology B2
Data Technology B4

inside

B

A330 loses both engines, lands OK in Azores

Robert Byrne
Staff Photographer

On August 24, an Air Transat Airbus A330 lost both engines while enroute to Lisbon from Toronto. The flight crew managed to fly the powerless aircraft to Lajes Field in the Azores where they made a safe although hard landing.

The crew first realized there was a discrepancy with the fuel aboard at 0536Z, and by 0626Z, a leak bled the plane dry and both engines on the 293-passenger jet had flamed out, leaving the crew 85 miles from Lajes at FL 345 in command of a high tech glider.

With help from ATC the crew made it to Lajes, where they shot a night visual approach to runway 33. On landing, 8 out of 10 tires burst and some small

fires erupted in the landing gear. Everyone was evacuated from the aircraft and the fires quickly extinguished. Nine passengers and two crewmembers were injured. The aircraft subsequently sat on the runway for 4 days, shutting down the airport until repair crews could arrive to move it.

The fuel leak was traced to a low pressure fuel pipe on the No. 2 engine, which cracked as a result of contact with a hydraulic pipe. Rolls-Royce had previously issued a service bulletin regarding the problem, and the fuel pipe on the Air Transat plane had been replaced as called for in the bulletin.

The service bulletin also calls for the installation of a matching hydraulic pipe however, and this hydraulic pipe was not installed on the No. 2 engine, resulting in

interference with the fuel pipe. The leak did not show up immediately because it was upstream of the fuel flow sensor on the engine. It would theoretically have been possible to find and stop the leak, but doing so would have required shutting down one engine and descending into questionable weather at night.

On Thursday, September 6, the Canadian Government fined Air Transat CDN\$165,000 for installing improper equipment on the aircraft. This came in addition to restrictions previously imposed on the airline. After the incident occurred, Air Transat was initially limited to ETOPS operations of 60 minutes, which has since been extended to 90 minutes.

In a further setback for the

airline, two passengers and their daughter filed a \$20 million dollar lawsuit against the Airline, Rolls-Royce, and the flight crew.

The Airbus A330-200 has a maximum range of about 6400 nm with a top speed of .86 Mach. It has a maximum seating capacity of 253 in a three class configuration or 293 in a two class configuration. The A330 is normally ETOPS certificated to 180 minutes. Airlines have three engine choices for the aircraft, the Rolls-Royce Trent 700 used by Air Transat, Pratt and Whitney PW 4000, and the GE CF-6. The Air Transat incident is the first time a 330 has suffered a complete power loss in flight.

A similar incident occurred in 1983 when a Boeing 767 ran out of fuel over Canada. This incident occurred as a result of a miscalculation of the fuel on board before departure. Air Canada flight 143 was scheduled from Montreal to Ottawa and then on to Edmonton.

The fuel gauges on the Aircraft were not working and the crew manually calculated the fuel on board before departure. The problem was that the crew used a 1.77 pounds per liter specific gravity for the fuel, when they should have used a figure of .8 kilograms per liter for the all metric 767. The aircraft ran out of fuel at 41,000 ft and the crew made an engine out landing at an abandoned air base in Gimli, Canada.

There were no major injuries despite the nosegear having failed to lock in the down position for landing.

More information and press releases can be found at www.airdisater.com, or at the Transat Group's web site at www.transat.com. French and English version are available.



DAVID WONG/AVION

THE AIRBUS A330 IS a widebody, twin-engine aircraft, capable of carrying 293 people on routes of up to 6650 nautical miles. The Air Transat aircraft was powered by Rolls-Royce Trent 700 engines.

Airbus 330-200/300 Facts

- Medium/Long range, twin engine airliner.
- Manufactured by EADS in France, Germany, UK, and Spain by consortium partners.
- Two crew (Captain and First Officer), occupying glass cockpit with dual sidestick controllers.
- Two high-bypass-ratio turbofan engines, either the Rolls-Royce Trent 700 series, Pratt and Whitney PW4000, or General Electric CF6-80E1.
- Airlines operating the A330 include Gulf Air, Air Transat, Sabena (Belgium), Emirates, Air Canada, Sri Lankan, Thai Airways, Malaysian, Canada 3000, Swissair, US Airways and others.
- Has a range of up to 6650 nautical miles, and can carry up to 293 people in a two-class layout and over 300 in a single-class layout.
- Air Transat has three A330-200s.



INTERNET PHOTO

RESCUE AND FIRE PERSONNEL were at the scene as an Air Transat A330-200, enroute from Montreal-Mirabel to Lisbon, made an unpowered or "dead stick" landing at Lajes airfield in the Azores. The aircraft lost power due to a fault in the fuel system. No major injuries were reported.

American spyplane downed by Iraqis

Mark Soppet
Special to the Avion

Iraq's government-run news agency reported last Monday that Iraqi air defenses shot down an American reconnaissance plane flying in from Kuwait. The incident took place in the skies near the city of Basra, 340 miles south of Baghdad.

The Air Force did not comment on the situation immediately, although a Pentagon spokesman, Army Maj. Timothy Blair, reassured the public that "all of our manned aircraft are accounted for."

The Pentagon later admitted that an RQ-1 Predator, a high-endurance, unmanned reconnaissance aircraft, did not return to base.

The cause of the crash is not certain. Although Iraq claims that it shot down the drone, it is just as likely that mechanical failure is the reason for the crash. If the plane was forced down, it would not have been the first time this has happened for the Predator. Several were shot down during their surveillance of Bosnia and Kosovo, between 1995 and 1999.

Most experts feel that Iraq will not gain much from this incident. Most of the Predator's systems are not classified hardware, and it is doubtful that Iraq could learn from them due to the

damage the drone received in the crash. And the incident lacks the propaganda value that the shootdown of a manned aircraft would carry.

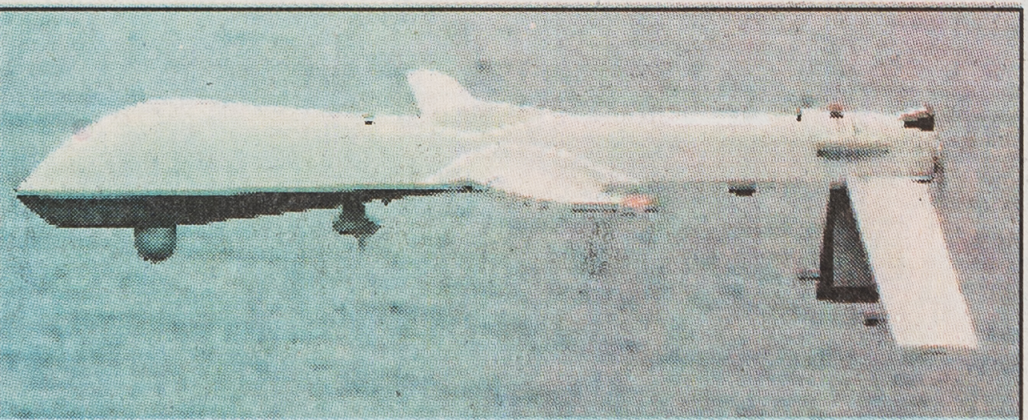
The Pentagon's prime concern is whether Iraq has improved its air defenses to the point that it could shoot down a manned aircraft.

The incident came on the heels of the attempted shootdown of a U-2 reconnaissance plane, as well as an American strike against an SA-3 missile battery during the same day. Although U.S. Central Command cannot confirm that the Iraqis actually shot the Predator down, it was written off as a "combat loss" so it could be replaced immediately.

The RQ-1A Predator is a medium altitude, high endurance

unmanned reconnaissance aircraft used by the U.S. Air Force. In addition to the aircraft, the Predator system includes a ground control station and a Trojan Spirit II SatCom link. A flight of four aircraft requires 55 personnel to operate. The Trojan Spirit II is itself comprised of two Humvees and two satellite dishes.

The Predator has been used extensively over the Balkans since 1994, and has recently been deployed to Iraq. The Air Force became the prime operator of the system in 1996. Tests in 2001 with Hellfire missiles (normally on the Apache) also validated the Predator's capabilities as an Unmanned Combat Aerial Vehicle.



INTERNET PHOTO

THE PREDATOR UNMANNED VEHICLE was lost over southern Iraq. Middle East analysts are suggesting that this is proof of foreign assistance in Iraq's air defence network.

Singer Aaliyah dies in Bahamas crash

Elisa McGhee
Special to the Avion

Drugs and carelessness of a pilot ended in eight fatalities over Bahamian waters Saturday, August 25. The crash of the Cessna 402B was carrying the popular young entertainer, Aaliyah.

The 22 year-old was on location in Great Abaco, Bahamas for her newest video and release called "Rock the Boat." Director Hype Williams stated that the shot had gone amazingly well, saying "Those four days were very beautiful for everyone. We all worked together as a family... the last day, Saturday, was one of the best I've had in the business. Everyone felt part of something special, part of her song."

After the successful video shoot, the party loaded into the Cessna. As reported by witnesses, the plane climbed steeply, then banked sharply left and dove into swampy scrub, nose first. Flames from the crash reached 200 feet above Marsh Harbor airport's

runway. Witnesses said the baggage handlers had warned the pilot that the baggage appeared excessive. The Bahamian Civil Aviation Department reported that the only problem was that the maximum height level was exceeded.

The report indicated that after baggage and fuel were accounted for, the plane had only 805 pounds to spare to be within the weight limits. This indicates that the nine persons aboard would have only been allowed to weigh 90 pounds.

Other victims were Gina Smith and Keith Wallace of Blackground Records, Aaliyah's make up artist Eric Foreman, and Virgin Records director of video productions, Douglas Kratz.

Pilot Luis Antonio Morales Blanes III, 30, of Fort Lauderdale, Florida, had logged over 300 hours flying the type of aircraft involved in the crash.

On August 13, the pilot pleaded no contest to charges of cocaine possession, dealing in stolen property, grand theft, and

driving with a suspended license. He also received three years of probation and was required to undergo urine testing for illegal drugs.

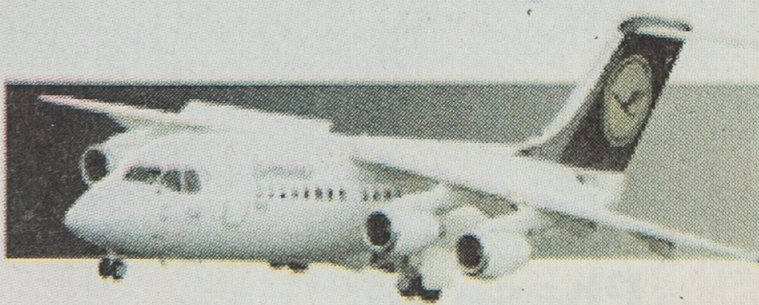
Morales had sixty days to report the incident to the Federal Aviation Administration, which would have suspended or revoked his flight certificate. Morales was still within that time frame, and therefore authorized to pilot the craft at the time of the accident. Morales' body was flown to his native Puerto Rico for his burial.

Aaliyah Dana Haughton's body was drawn by two cream-colored horses through the streets of Manhattan's Upper East Side Friday. Dozens of pink roses covered her hearse as her parents Diane and Michael Haughton watched it pass.

In Aaliyah's memory, a scholarship fund was started by the high school from which she graduated, Detroit High School for the Fine and Performing Arts. Donations to the Aaliyah Memorial Scholarship Fund can be sent to First Independence National Bank, 44 Michigan Avenue, Detroit, Michigan, 48226. For more information, call 313-461-6268.



INTERNET PHOTO



UK ATC regulations to be tightened

Following an incident last year in which a damaged DC-10 overflew densely populated areas around London, British air traffic control officials are set to tighten regulations. The DC-10, which declined to land at Shannon in Ireland due to inclement weather, and also turned down landing clearance at RAF Brize Norton, landed at Heathrow airport, in London.

Aer Lingus jet makes emergency landing

A US-bound Aer Lingus A330 was forced to make an emergency landing at Shannon airport following a loss of oil pressure in one engine. The jet, already some 250 miles into its Atlantic track, returned safely with no harm to the 273 passengers on board. Aer Lingus, the Irish flag carrier, operates 8 A330 on routes to Boston and New York in the United States.

AMR losses larger than expected for Q3

American Airlines' parent company, AMR, expects to post losses for Quarter 3 in excess of the \$507 million Q2 loss already reported by the company. Financial analyst Micheal Linenberg of Merrill Lynch, commented that "American may have too many assets and is probably also overstaffed." AMR cites rising labor and fuel costs as factors.

GPS vulnerable to jamming, report says

A new report from the Volpe National Transportation Center had revealed that GPS signals are vulnerable to intentional jamming as well as unintentional interference. The report, due to be officially released next week, may delay the FAA's plans to rely exclusively on GPS for navigation and approaches. The FAA is awaiting the report's findings eagerly.

Mexican Saab 340 lands after engines fail

A Saab 340 belonging to Mexicana subsidiary AeroLitoral made a dead-stick landing in a field near the northwestern city of Juarez. Shortly after taking off from Tijuana, the crew reported the loss of one engine, and while trying to return to the airport, the other engine also failed. The 32 passengers and crew were treated for shock at local hospitals.

Iran Air plane diverts due to crew fight

An Iran Air 747, flying from the Iranian capital Teheran to London, diverted to Frankfurt after a fight broke out between the flight crew and members of the Iranian Revolutionary Guard on board the aircraft. The cause of the fight was a request from a passenger to visit the flight deck.

Aviation Trade News is compiled from industry press releases.

Aviation Trade News



Space News Updates

Compiled by
Charla Keiser

NRO spy satellite arrives by Atlas

A new spy satellite, owned and operated by the National Reconnaissance Office (NRO), is now orbiting Earth after a perfect launch on Saturday.

These satellites have probably been in development since the late 1990s, but were not launched until they were light enough to be launched from the less expensive Atlas 2AS rockets. This is the third of five classified missions by the NRO with Atlas and Lockheed Martin, whose Atlas 2AS rocket put the satellite up from Vandenberg at 11:25 a.m. EDT.

Two more NRO launches will be held in October—the first on a larger and more expensive Titan 4 from Vandenberg on Oct. 1, and another atop an Atlas 2AS from Cape Canaveral on about Oct. 10.

Shuttle safety spending questioned

A \$4.8 billion cost overrun by the International Space Station has caused NASA to cut back on its shuttle safety upgrades. According to William Readdy, an Office of Space Flight administrator, the space agency has made impressive safety improvements, but more work needs to be done.

"I fear that if we don't provide the space shuttle program with the resources it needs for safety upgrades, our country is going to pay a price we can't bear," said Sen. Bill Nelson, a Florida democrat. Nelson was on a shuttle mission before the 1985 Challenger accident as a congressman.

Another \$218 million more is needed, or the six shuttle flights in the next fiscal year might need to be delayed.

Search for Titania's atmosphere

Titania, one of Uranus' moons, will eclipse the remote star HIP106829 this Friday, Sept. 14. French and German scientists in Ecuador will watch from the Andes Mountains as the eclipse causes the light of the star to illuminate the atmosphere, if any, surrounding the moon.

"The goal is to make use of this distant eclipse to clarify the unknown. It is unknown whether Titania has an atmosphere," said Bruno Sicardy, a French astronomer in Ecuador for the phenomenon.

It is hoped that the information gathered will help scientists better understand the Solar System.

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Kennedy Space Center looking for new hires for shuttle

Nicole Menkhoff
Space Technology Reporter

The National Aeronautics and Space Administration (NASA) has given its prime contractor at Kennedy Space Center (KSC) the OK to hire hundreds of new workers so they can be trained to perform a multi-million dollar overhaul on shuttle *Discovery*.

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orbiters for structural inspections and modifications periodically. This leaves its other three ships left to carry out shuttle missions in the meantime. Traditionally, that work is done at a Boeing plant in Palmdale, Calif.

The space agency is facing an \$800 million shuttle budget shortfall over the next five years. Therefore, managers are considering moving planned overhaul work on *Discovery* to KSC in order to save money.

On average, it costs around \$2 million to ferry a shuttle orbiter to California and back to Florida atop a modified 747 jumbo jet. In addition to this labor, energy and other operational costs are less

expensive in Florida than California. In 1994, a NASA study showed that shuttle overhaul work could be done for less money in Florida, but the work nonetheless continued to be done in California.

Senior shuttle program officials gave the company the green light to start hiring to prepare for the possible new work. NASA has also agreed to reimburse the company for money spent should a decision be made to do the work in California.

The exact number of new hires at KSC is still to be determined and a firm decision on where the work will be done is expected later this month.



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"This is the model for what exploration of space should and can become," said Manbar.

The National Aeronautics and Space Administration (NASA) has been informed of the effort. There has still been no official response from NASA officials.

Hubble photographs edge-on galaxy . . .



PHOTO COURTESY NASA.GOV

SOON AFTER TAKING ITS 100,000th image, the Hubble telescope captured this picture of ESO 510-G13, the dark dust clouds visible against the bright central core of the galaxy. The right-hand side of the picture appears distorted because two galaxies are in the process of merging together, creating bright new stars in the process. After the merge is complete, ESO 510-G13 will look just like a normal spiral galaxy, similar to our own Milky Way.

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Discovery visits ISS

Roiann Nimis
Special to the Avion

Early last month, *Discovery* once again rode a column of fire into orbit. On August 10, shortly after 5:10 p.m., STS-105 launched after a twenty-four hour delay due to lightning strikes in the area. Onboard this flight were Scott Horowitz, Fredrick Sturckow, Patrick Forrester, Daniel Barry, Frank Culbertson, Vladimir Dezhurov and Mikhail Tyurin.

The highlights of this mission were the rotation of the International Space Station crew, two spacewalks and the delivery of Italian built Multipurpose Logistics Module, *Leonardo*. *Discovery* was scheduled to dock with the International Space Station about 46 hours after the launch.

The MLM was attached to *Unity*, and the transfer of critical supplies took place. Among these supplies were water, equipment and more scientific racks for the space station.

The changing of the crews was the second for the ISS. The crew of Expedition Two will return to Earth with *Discovery*, while the Expedition Three crew, astronaut Frank Culbertson and cosmonauts Vladimir Dezhurov and Mikhail Tyurin, will continue with the scientific investigations that began aboard *Destiny* in March.

The purpose of the two spacewalks, performed by Barry and Forrester, was to deliver and install equipment and make repairs to the space station. Barry and Forrester also laid cables and handrails to be used on a future spacewalk.

Did you know...

By Nicole Menkhoff

When we study the universe, we find there are objects of all sizes. The larger ones are easy to find and measure, but what about the small ones? How do scientists accurately measure the dimensions of tiny objects in space?

Scientists can accurately measure the dimensions of even the tiniest object using interferometry. This technique involves splitting a beam of light in two, bouncing both beams off a

series of mirrors, and examining the pattern produced when the beams come back together. If one beam is changed along its path, an interference pattern in the form of a series of colored lines, called spectral lines, is produced. The spectral lines indicate the size of the object emitting the light, to the distance of a single wavelength. Interferometry can also be used to determine the size of distance and to measure the space between them.

Robot firefighters

Altus II provides real-time video of fires from above

Nicole Menkhoff
Space Technology Reporter

Early last week the National Aeronautics and Space Administration (NASA) introduced what they call the next generation of firefighting technology — a robot plane. The plane will be able to circle for up to 24 hours over wildfires. While controlled by pilots on the ground, it will be able to beam video images and information back to computers by satellite.

Originally introduced in 1998, the Altus II unmanned plane is a high-altitude, long-duration scientific aircraft. It uses innovative technology usually seen in military aircraft. This will give fire crews a real-time view of fires that can burn over hundreds of thousands of acres and the fact that the plane is unmanned insures that no pilots will ever be endangered.

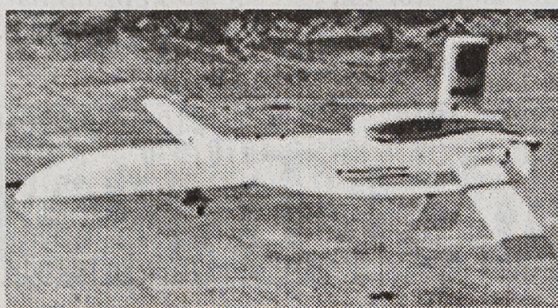
NASA officials say the technology will help move firefighting into a new era.

"Right now they have an infrared system that is using very overloaded and old technology. They have maybe three planes go up and take a few pictures in the evening, getting two or three fires at the most. Then they have to land and hand a piece of paper to a runner to take it out to the fire camp. These unmanned aircraft (Altus II) are really pretty special because they can be put in dangerous situations and not put a pilot at risk. Firefighting is dangerous and if we can make it less dangerous that's a great step all around," said Steve Wegener, NASA Project scientist.

Altus II is a variant of the Predator unmanned surveillance aircraft manufactured by General Atomics Aeronautical Systems Inc. of San Diego, Calif. It sends thermal imagery through a satellite link and onto the Internet, where firefighters can access it to make decisions.

"They will have a great real-time product to aid them in disaster management. We could also do floods, earthquakes, and pollution events. What we're providing is a snapshot within minutes of taking imagery," said Wegener.

The plane is scheduled to fly a demonstration mission for firefighting officials some time this month.



Orbiter Update

Atlantis (OV-104)

The orbiter *Atlantis* is currently in the Vehicle Assembly Building in high bay 4. It will remain in the VAB until mid-September while undergoing some minor maintenance work.

Discovery (OV-103)

Discovery is going through a post-flight work period in bay 2 of the Orbiter Processing Facility.

Its robot arm has been removed from the payload bay. The main engine and forward reaction system removal are still in progress.

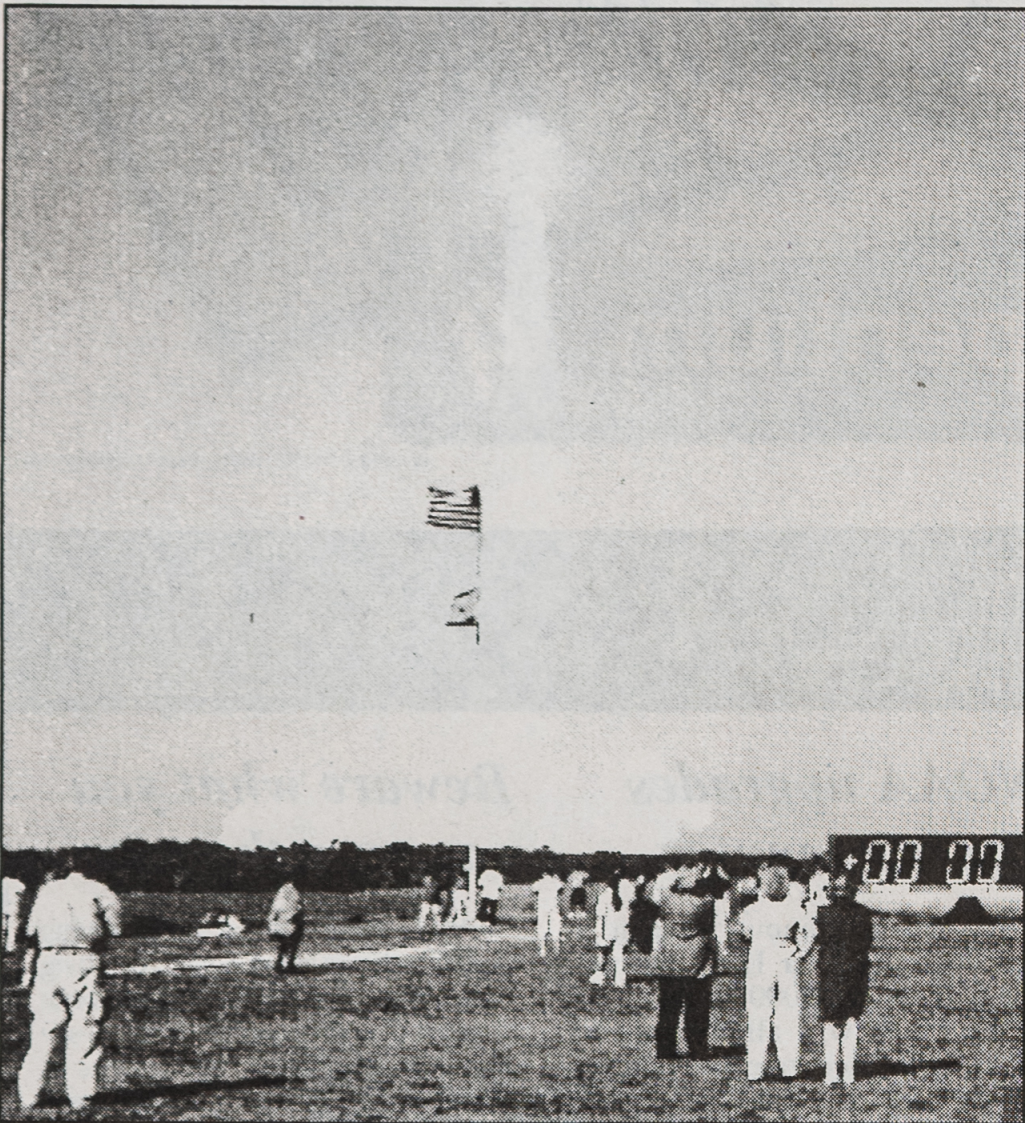
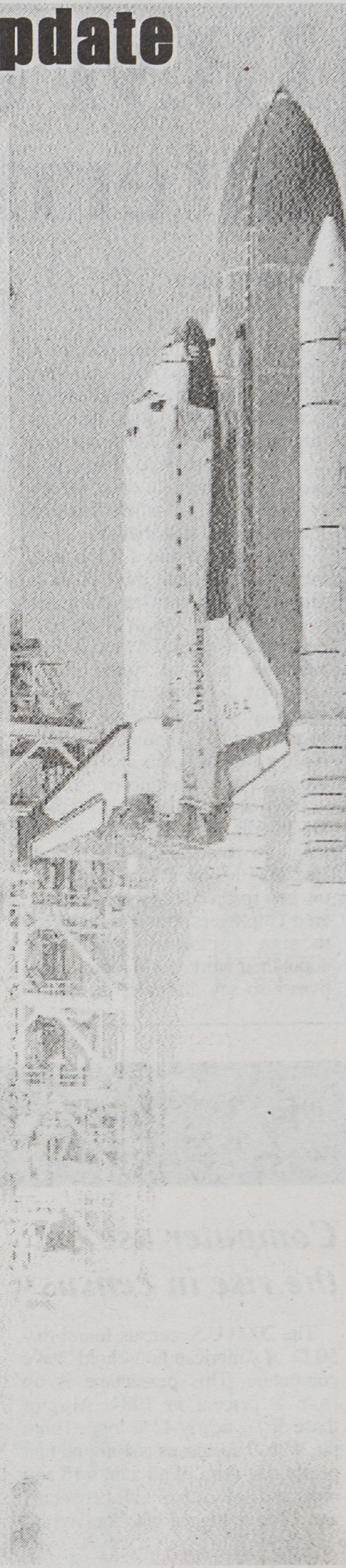
After the post-flight work is concluded, the orbiter will begin a structural inspection and modification period. The extent of this work is currently being assessed and scheduled. A decision on what work will be done is expected this month.

Columbia (OV-102)

Ku and radar system tests have been completed and preparations continue for the installation of the forward reaction control system in bay 3 of the Orbiter Processing Facility. Attach point work must be completed before the right orbiter maneuvering system pod is installed.

Endeavour (OV-105)

Endeavour's hydraulic accumulators have been installed and work on the quick disconnects for the auxiliary power unit continues. Functional tests of the radiators begin this week. The orbiter is being stored in the Orbiter Processing Facility bay 1.



ROIANN NIMIS/AVION

THE SHUTTLE DISCOVERY LIFTS off on August 10th for a crew change on the International Space Station and the installation of the Multipurpose Logistics Module.



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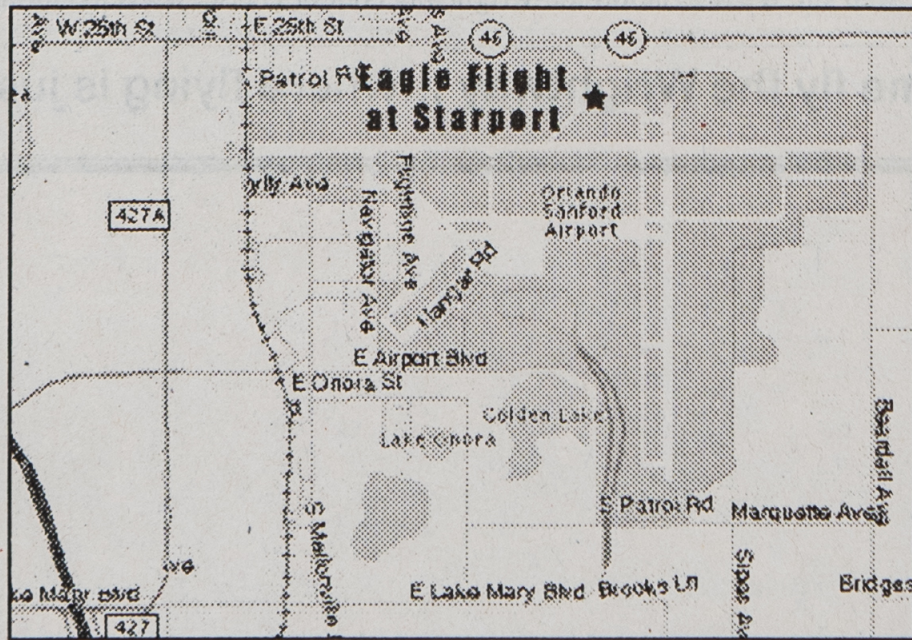
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Space News Updates

Compiled by
Charla Keiser

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IBM offers internships

Brian Upman
Staff Reporter

Over the past three summers IBM has employed summer interns from various universities across the country at its developmental labs. The students work on a variety of projects. Some projects deal with the Internet, security issues, and still others focus on marketing and distribution.

IBM employs about 100 interns every summer, and most of them are either business or computer science majors. Most of the students that work at IBM focus their attention on Lotus Notes groupware, or servers for telephone companies. One student said he focused on re-inventing e-mail by finding new ways to analyze and organize large amounts of e-mail.

IBM also says that because of the Interns work at the company about 18 patents have been filed. Because the interns are working on new projects and are considered employees they are required to sign disclosure agreements about their work. IBM representatives also say that over the years

IBM has been stereotyped as being a company full of old snobbish typed men, and these interns are helping to dispel this stereotype.

When the interns are nearing the end of their work for the company they take what they have been working on to IBM's executives in Armonk, New York. In Armonk they present their projects and designs. Some of the interns have also been working on IBM's latest technology, which will use voice-recognition technology to answer customer requests online.

While most of the interns were working on new technology for the company, other interns, mostly with business majors were working on ways to promote the company in a different light using different marketing and promotional strategies. Also the interns focused on what products should be developed in the future.

While the internship program is only offered in this country now, IBM hopes to extend it to both Europe and Asia in the next couple of years.

The gigahertz war wages on

Christian Tougas
Editor in Chief

This past year has been another great year for the advancement of technology. Pocket PCs have become quite common place, cell phones continue to shrink in size and desktop computers continue to increase in the all important speed category. With a little research though, most end users discover that "speed" is not all that it is cracked up to be today.

The most recent speed advancement in the CPU market today is that of Intel's new Pentium 4 processor. This new chip, with its millions of transistors, is currently reaching speeds of 2 Gigahertz (2,000 Megahertz). Competing for support, and customers, is Intel's rival, AMD (Advanced Micro Devices). The current AMD processors are of the Athlon genre and operate at 1.4 Gigahertz.

Looking at these two processors, at face value, consumers immediately think that faster is better. Right?

Wrong. Despite the higher operating frequency of the Intel Pentium 4 processor, the AMD Athlon is by far the better processor, not only in terms of performance, but the

all important price.

Breaking down the processors further, one can begin to see why the AMD Athlon wins out over the Pentium 4. In bench mark tests performed across a wide range of operating systems and programs, the AMD Athlon outscored the Intel Pentium 4 (www.tomshardware.com). This test ran a 1.4 GHz Athlon against a 2.0 GHz P4; the Athlon outperforming the Intel in a majority of tests, hands down.

Besides pure statistical benchmark data, the Athlon has a superior hardware architecture when compared to the

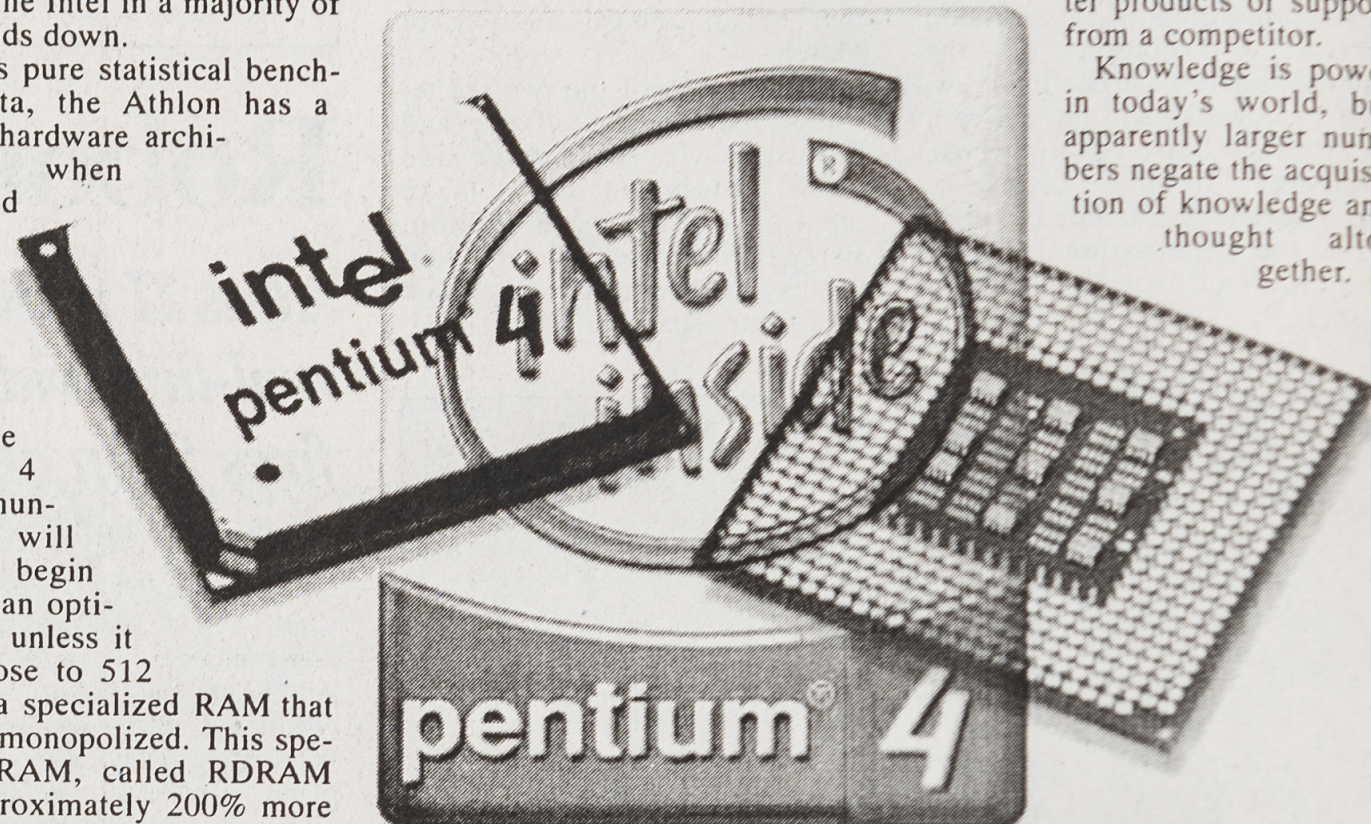
ules that Athlon's use and has not been shown to outperform them in much of any way. Even with the RAM though, the Athlon still maintains a strong lead in benchmark tests.

Another reason why the Pentium 4 loses to the Athlon, is because of the cost. At the time of this publication, an Athlon 1.4 GHz processor sells for approxi-

mately \$110, an Intel Pentium 4 2.0 Ghz processor, on the other hand, sells for over \$300. Pound for pound, you get more for your money with the Athlon.

Push all this information aside though and most consumers still see speed numbers as the most important factor when buying a computer processor. This sad truth is why companies maintain monopolies despite better products or support from a competitor.

Knowledge is power in today's world, but apparently larger numbers negate the acquisition of knowledge and thought altogether.



INTERNET PHOTO / WWW.TOMSHARDWARE.COM

Computer Trade News

GRAPHIC BY ADRIAN P. SINNOTT

Computer use on the rise in census

The 2000 U.S. census found that 50 % of American households have computers. This percentage is up from 8 percent in 1984. Also of those 50 %, nearly 42 % logged onto the Web. The census also found that nearly one-third of all adults 18 and older and one-fifth of kids between 3 and 17 have logged onto the Web.

New Altima to take on Accord

The 2002 Nissan Altima hopes to come into competition with the Toyota Camry and Honda Accord. The new Altima is longer, taller, and wider than the 2001 Altima, and has also replaced the steel hood and trunk with aluminum which has helped to keep the weight of the car down.

HP to release new Pocket PC

HP will release the Jornada 560 handheld series on October 2. It will feature Microsoft's hand held OS, Pocket PC 2002, which features MSN Instant Messenger, Windows Media Player 8, and MS Reader. It will weigh 6 oz., the battery will last 14 hrs., and will feature either 32MB Ram or 64MB or RAM.

Intel debuts new, improved transistors

Intel has announced that it has developed a new transistors that will be used in microprocessors. The transistors will enable future microprocessors to be three times faster than they are now. According to Intel the transistors can turn on and off more than a trillion times per second.

NOAA upgrades supercomputer

NOAA has announced that it has upgraded to a 1,152 processor SGI Origin 3000 series computer which will allow them to make more accurate predictions of the weather, especially with regards to hurricanes. The new system is 4 times more powerful than the older one.

Beware what you say over the net

While people have been saying negative things about others for a long time, only recently have they been doing it over the Internet. Experts say that chats are not as anonymous as people think. In recent cases people that have said threatening things over the Internet are uncovered when ISP's are subpoenaed to reveal the names.

Compiled by Brian Upman

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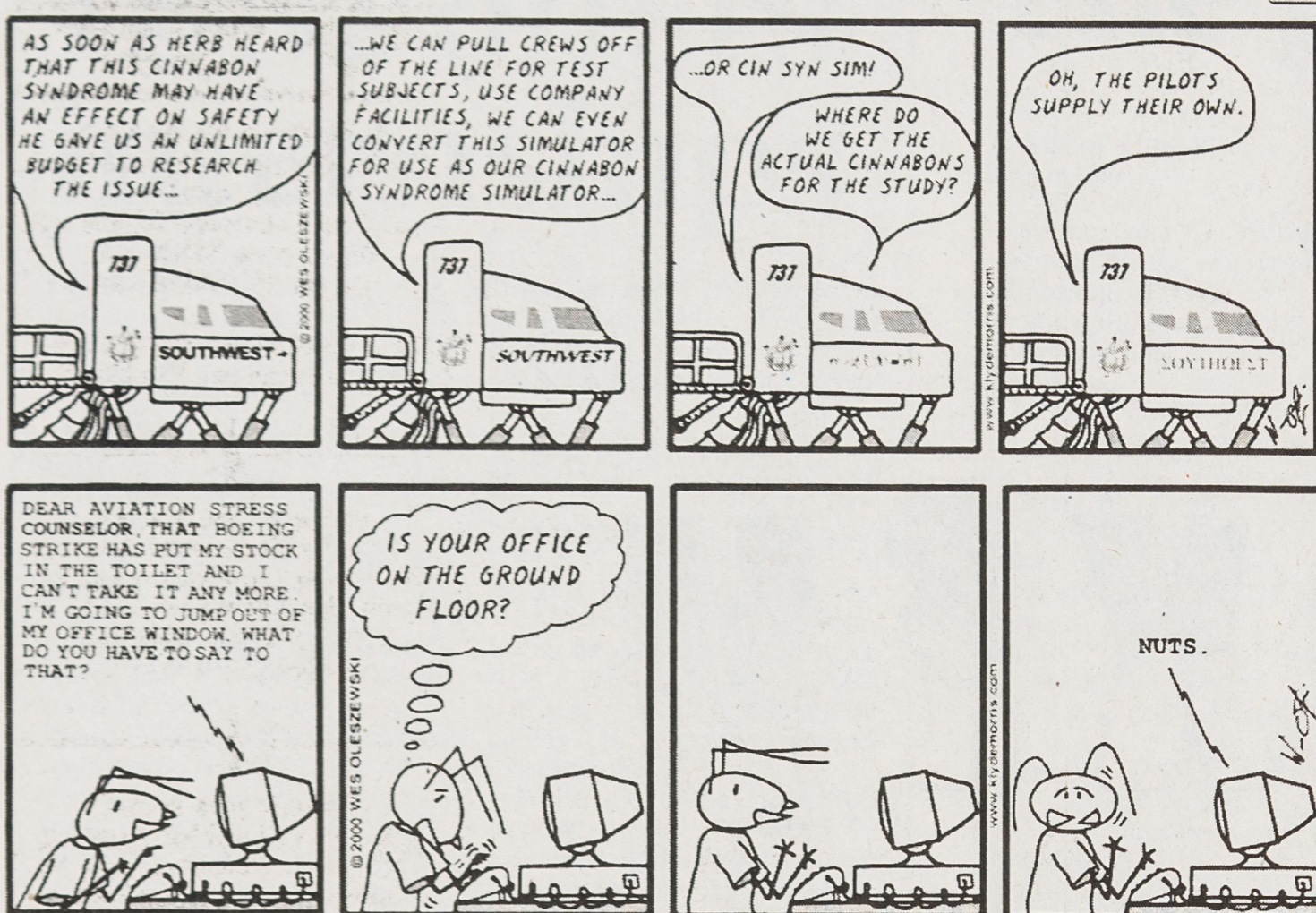


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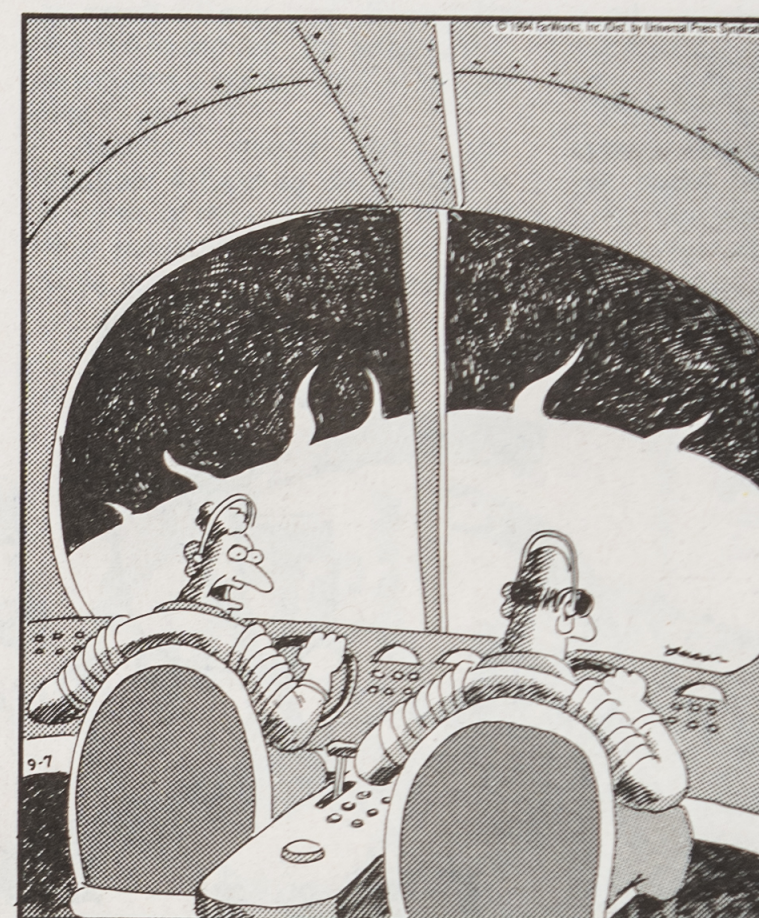
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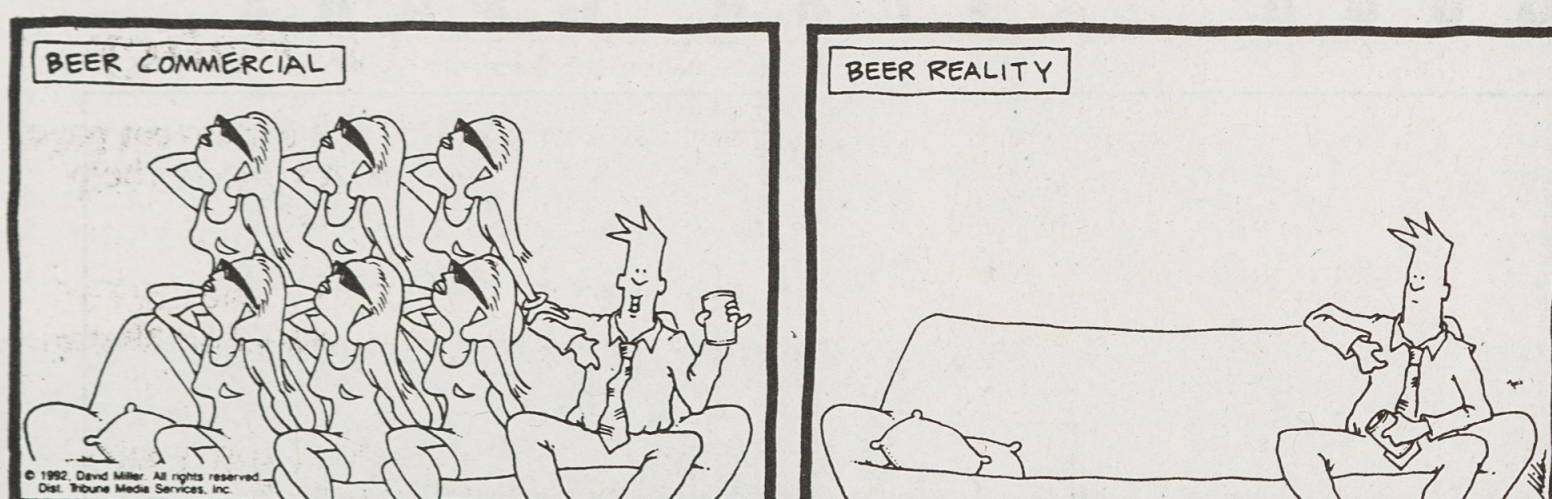


THE FAR SIDE

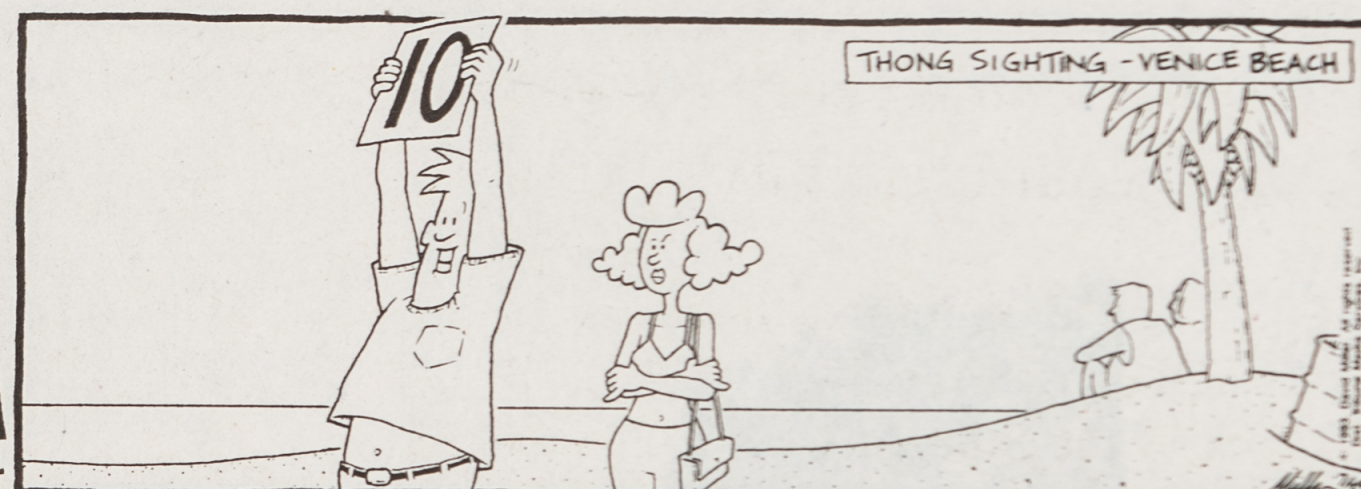
By GARY LARSON



"It's no good, Dawson! We're being sucked in by the sun's gravitational field and there's nothing we can do! ... And let me add those are my sunglasses you're wearing!"



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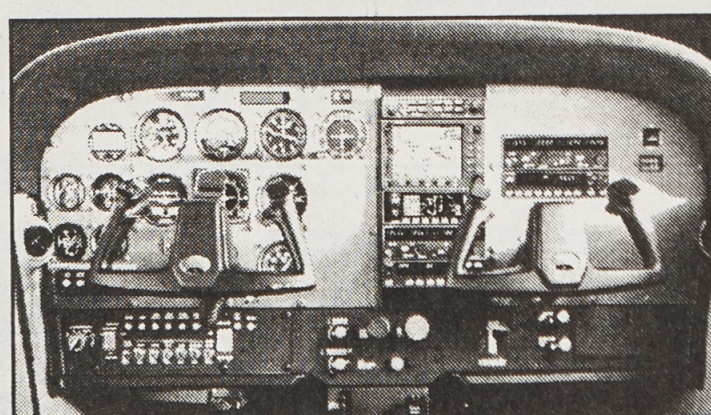
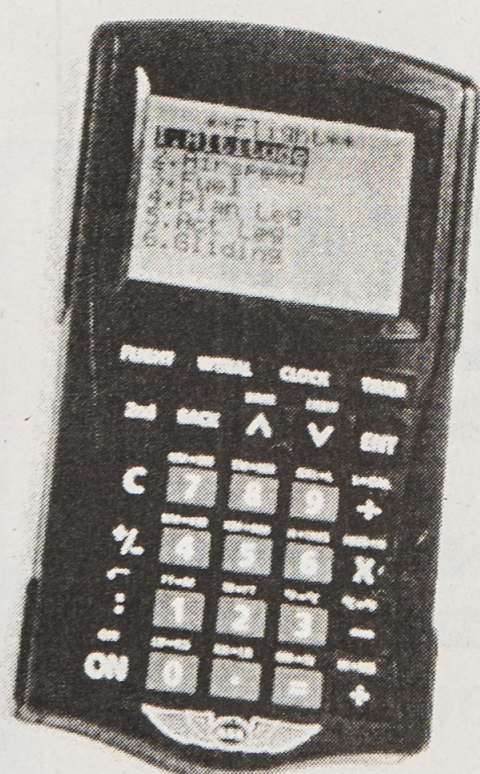
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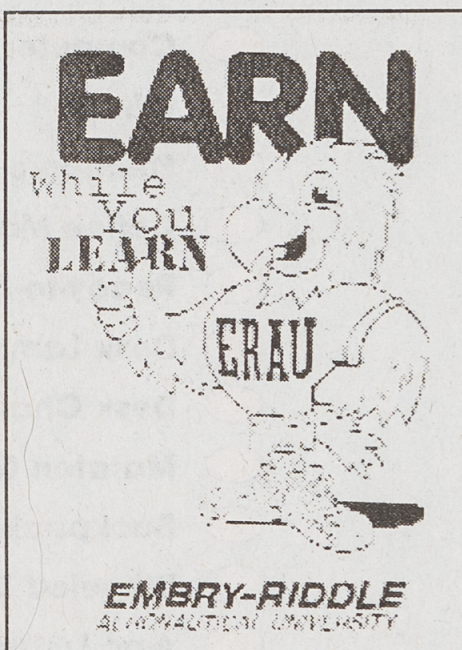
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• Advertising for members of the community, including businesses, is \$10 per ad.

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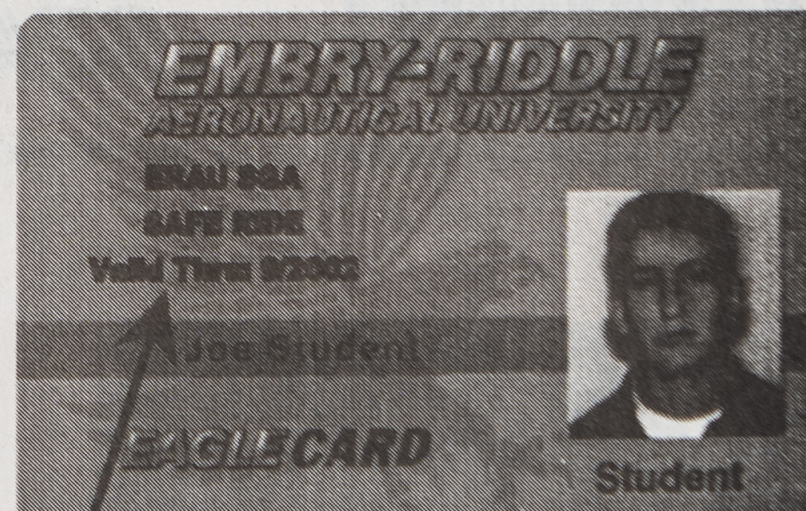
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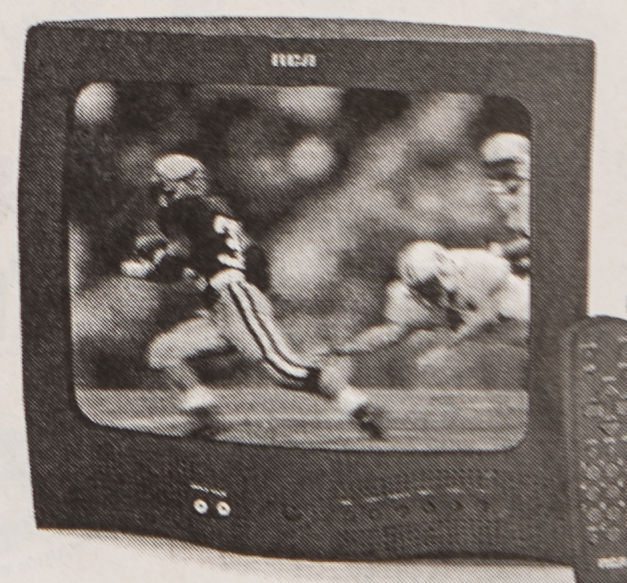
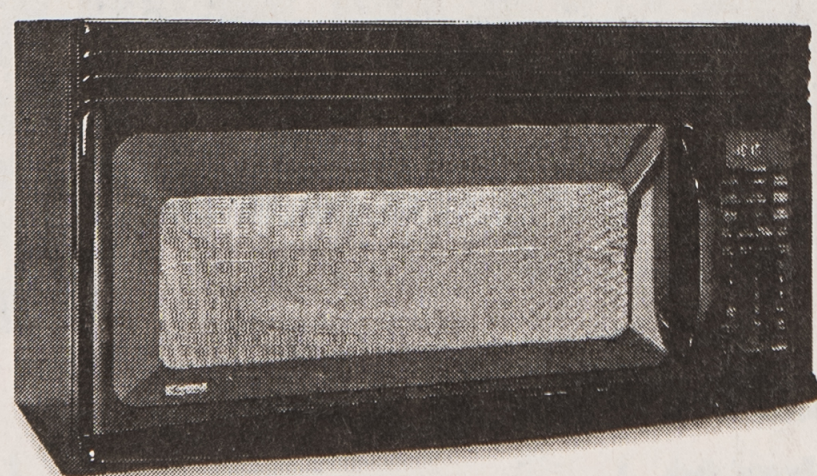
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