

9-22-1993

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Embry-Riddle Aeronautical University

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# AERONAUTICA

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## Beech takes aim to deliver more Jayhawks

WASHINGTON, D.C. — Beech Aircraft Corporation is preparing delivery of its T-1A Jayhawk to a third Air Force base and has completed missionization of its PC-9 MkII trainer, which is in the Joint Primary Aircraft Training System competition.

With U.S. Air Force T-1A Jayhawks already in service at two Texas locations, the 538-mile-per-hour aircraft is being prepared for delivery to a third Air Force base.

The first Jayhawk scheduled for delivery at Laughlin AFB will arrive next month. Additional Jayhawks have been delivered to Reese AFB, where the first group of Specialized Undergraduate Pilot Training (SUPT) students graduated in July, and to Randolph AFB, where the airplanes are used exclusively for Pilot Instructor Training (PIT) that began last month.

By the end of August, Beech had delivered 41 Jayhawks to Reese and eight to Randolph.

The Air Force has placed orders for a total of 113 Jayhawks to date. It is projected that as many as 180 Jayhawks will be required to meet the Air Force mission.

The T-1A Jayhawk is a militarized version of the Beechjet 400A business aircraft. The Jayhawk is powered by twin Pratt & Whitney (JT15D-5B) engines developing 2,900 pounds of thrust each.

Jayhawks...2Both Jayhawk and Beechjet are manufactured entirely

in the United States, at Beech facilities in Wichita and Salina, Kan. Beechjet production was transferred to the United States in the 1980s, bringing with it hundreds of jobs for American workers.

In other news, missionization of the Beech PC-9 MkII by Beech Aircraft Corporation, for the Joint Primary Aircraft Training System (JPATS) competition, is complete.

"The PC-9 MkII is fully compliant with JPATS program requirements and offers the lowest risk, lowest life cycle cost program, while providing a error tolerant aircraft capable of challenging the advanced student," said David H. Riemer, director - JPATS Program for Beech.

The \$5 to \$6 billion JPATS program calls for more than 700 aircraft to be built over a ten-year period as primary trainers for the U.S. Air Force and Navy.

Beech Aircraft will build the complete PC-9 MkII airframe in Kansas, ensuring that domestic content on the program is at least 90 percent.

Beech has flown three PC-9 MkIIs more than 460 flight test hours to date. The first aircraft, an engineering development prototype, was originally a basic PC-9.

"The developmental prototype, which first flew in September 1992, was incrementally modified to ensure retention of the superior flying characteristics of the PC-9," said



U.S. Air Force T-1A Jayhawks will be deployed from a third Air Force base, Laughlin AFB in California. The Air Force has ordered 113 of the training aircraft, based on the Beechjet 400A business jet.

Riemer. His comments were made at the annual meeting of the Air Force association in Washington, D.C.

The aircraft was used to develop and demonstrate an increased bird-

strike resistant canopy, incorporation of the upgraded PT6A-68 engine, and aerodynamic improvements to further enhance the aircraft's flying qualities.

The engineering developmental prototype accumulated more than 260 hours during its flight testing, which is now complete. It was used to reduce program risk and develop

a mature engineering baseline design.

The first Beech-built production

see Beech, page B7

## Gliders offer 'powerless' alternative

By Bryan Gross  
Staff Reporter

Are you tired of waiting for clearances, wasting your time and money on the ground instead of in the air? Why not put some fun back into your flying? Why not try soaring?

Citrus Soaring, located at Bob Lee Airport in DeLand, offers an introductory ride for \$30. The flight lasts about fifteen to twenty minutes. It originates from a grass field, outside of Daytona's Class C (ARSA) airspace. The operation is run by Bob and Janie Burbank, whose previous experience includes running a flight school in Vermont. It is open Thursday through Sunday from 11 a.m. to 4 p.m., year round. They offer ground and flight instruction and give FAA examinations as well.

Driving onto the airport property proves to be a nostalgic ride in itself. You'll see airplanes like Piper Cubs, Cessna 170s and even a Stearman. But as I got out of my car and walked up to Citrus Soaring, I was greeted by Bob who was to give me my first glider ride.

We would be flying a Sweizer 2-

33A. As we got the glider hooked up to the towplane, Bob explained what was going to happen during the takeoff and tow.

We would be in the air about 15 knots ahead of the towplane so we would have to level off to allow the Luscombe to get off the ground. After that, we (actually I) would learn how to "box the wake."

This is similar to formation flying. Bob explained that you want to match the towplane's bank angle with your ailerons and turn with rudders. We would be towed to 3,000 feet MSL.

After an uneventful takeoff, tow and release, I tried making a few coordinated turns, using the yaw string. This takes the place of the inclinometer that is found on the turn coordinators in airplanes. Rudders are definitely a must because of the long wings the glider has.

The only other instruments the Sweizer has are an altimeter, a variometer (a very sensitive vertical speed indicator), and an airspeed indicator.

At about 42 knots, we were only losing 180 feet per minute.

After a couple of clearing turns, I

did some stalls. They were very gentle and predictable. After a little bit of sight seeing, Bob informed me it was time to start heading back to the field.

The idea is to cross the airfield at 1,000 feet AGL. After entering the pattern, we actually sped up to 55 knots for our landing. I unlocked the spoilers, which allow for very accurate landings. There is no flare during landing, you fly the glider onto the ground. It's similar to wheel landings in taildraggers.

As we pulled off the runway, Bob asks me how I liked it. By the expression on my face, he knew he'd hooked another one.

For a Private Pilot add-on rating, a checkout in the glider is needed plus 10 solo flights. The checkout would be about 6 flights, depending on your currency. To get a Commercial add-on, a checkout and 20 solos are required. An oral and flight test are also required, whichever flight test you take.

Many non-rated pilots start off in gliders before going to powered flight.

For more information on how to experience the thrill of soaring, contact Citrus Soaring at 736-6588.

## Doolittle Raiders establish endowment fund with EAA

EAA News Network

EAA AVIATION CENTER, OSHKOSH, Wis. — Young people discovering the world of flight have gained a new partner representing one of the most significant days in the history of flight and of World War II.

The Doolittle Raiders, made up of pilots and crew members who participated in the famous 1942 American bombing raid on Tokyo, have established a permanent endowment fund with the EAA Aviation Foundation. Proceeds from this endowment will help fund the Foundations Young Eagles Program, which has a goal of taking 1 million young people for a demonstration airplane ride by the year 2003.

"We are honored to have the Doolittle Raiders participate in a program that involves young people in aviation," said EAA Aviation Foundation President Tom Poberezny. The Doolittle Raiders Endowed Fund will help us pass

aviation's rich heritage to new generations of enthusiasts. It will also help us perpetuate the Doolittle Raiders story and the role these courageous aviators played in world and aviation history."

The Doolittle Raiders chose to establish an endowment fund with the EAA Aviation Foundation because of its extensive and continuing work throughout the world of entire spectrum of aviation.

We wanted to establish a fund that would bring aviation to the greatest number of people possible and, at the same time, perpetuate the name and legacy of the Doolittle Raiders and their heroic actions," said Joe Manske, secretary of the Doolittle Raiders. "We feel that the EAA Aviation Foundation, with its outreach to virtually every age and interest, and to all facets of aviation, is a fitting home for such a fund."

The Doolittle Raiders also donated 180 limited edition prints that were sold by the Foundation, with proceeds benefiting the Doolittle Raiders Endowed Fund. These signed and numbered limited-edition

prints by artist Robert Moak, titled "0830 18 April 1942," are also autographed by 39 surviving members of the Doolittle Raiders, including Gen. Jimmy Doolittle.

The Doolittle Raiders embarked on their famous mission just four months after the Japanese attack on Pearl Harbor.

They flew 16 B-25 "Mitchell" bombers off the deck of the USS Hornet on April 18, 1942, and carried out a daring bombing mission over Japan. The raid was a major morale builder for Americans and their allies but was a major shock to the Japanese public and armed forces, who believed their homeland was impenetrable by foreign invaders. The Japanese public's outrage over the attack forced their military leaders into a number of miscalculations that would help turn the tide of battle in the Pacific theater.

The Doolittle Raiders were honored during the 1992 EAA Fly-In Convention with programs commemorating the 50th anniversary of the mission.

## Regional Jet take off



The Regional Jet has taken off with buyer world wide. With a range of 1,860 miles, a ceiling of 35,900 feet and cruise speeds of 528 miles per hour. Already Lufthansa has established an inter-city commuter route with the RJ. Several other airlines and companies have placed orders with a good number orders on option. Students now have a chance to become acquainted with this aircraft in the FA 495.

## Trade News...

Hilton Foundation pledges money for AOPA Air Safety

The AOPA Air Safety Foundation has received a new, three-year \$100,000 pledge from the Conrad N. Hilton Foundation of Reno, Nevada, for support of air safety programs beginning in December, 1994.

"The Air Safety Foundation is grateful for the ongoing support of the Conrad N. Hilton Foundation," said ASF vice president for development James Cunningham. "It allows us to further expand our aviation safety programs and to reach more pilots with our safety message."

Barron Hilton said on behalf of the Foundation, "The Hilton Foundation is pleased to continue its support to the AOPA Air Safety Foundation for its important work." "Safety in aviation can always be improved but it requires constant and analytical attention. That's the mission and the product of the AOPA Air Safety Foundation."

Previous contributions from the Hilton Foundation were instrumental in development of the new ASF Safety Review series of type-specific accident studies.

Based on the unique data resources of the Air Safety Foundation's Buehler Center for Aviation Safety, each ASF Safety

Review examines the accident history of a specific aircraft type from among 19,000 general aviation accidents since 1982.

"Since most accidents are pilot-related, we hope through the ASF Safety Reviews to present information pilots can use to enhance their safety in the particular aircraft they fly," ASF executive director Bruce Landsberg explained.

The Foundation's first Safety Review was produced in 1992 on the Cessna P210. The latest, issued in August, 1993, addresses the popular Cessna 182. Reviews of the Piper Malibu, Beech Bonanza and other aircraft are now in preparation.

McDonnell Douglas names new Vice President

LONG BEACH, Calif., Sept. 15, 1993 — McDonnell Douglas has named Nicholas R. Tomassetti vice president-general manager, twin jet business development, at its Douglas Aircraft division. Tomassetti will assume his new responsibilities on Oct. 4.

Tomassetti, 57, will be responsible for leading business development and marketing activities for McDonnell Douglas narrowbody commercial jet transports, including the MD-80, MD-90 and MD-93 twin jets and the proposed DC-9X modernization program.

In his new position, he will report to John Wolf, executive vice president.

"We are extremely pleased to have a seasoned executive of Nick Tomassetti's caliber join us," said Wolf. "He is a highly respected and experienced marketing executive. His broad customer knowledge and strong reputation are significant enhancements to our business activities."

Tomassetti comes to Douglas from Pratt & Whitney, a business unit of United Technologies Corp., where he was executive vice president of commercial engine business. After beginning his engineering career at General Motors in 1957, Tomassetti joined Pratt & Whitney in 1961, holding a number of important positions in engineering, customer support and marketing.

In 1981, he was named vice president-marketing for commercial products, and was appointed to the top marketing post for International Aero Engines in 1984, where he was later named president of the five-company consortium.

Tomassetti holds a bachelor's degree in mechanical engineering from General Motors Institute and a master's degree in mechanical engineering from the Massachusetts Institute of Technology.

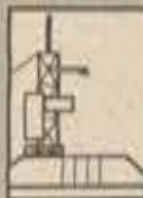


## Orbiter Update



### Columbia (OV-102)

Columbia is currently at launch pad 39B where it awaits a helium signature test and inertial measurement calibration tests in preparation for its scheduled October 14 launch date. The flight crew on Monday conducted a countdown demonstration test at the pad.



### Endeavour (OV-105)

The orbiter Endeavour is in the OPF where technicians are leak checking the main propulsion system and installing the auxiliary power units. Endeavour is scheduled to launch in early December on STS-61 to retrieve and service the Hubble telescope.



### Discovery (OV-103)

Discovery was scheduled to land at the Kennedy Space Center's Shuttle Landing Facility this morning at 3:58 a.m. after spending almost ten days in space. The orbiter will be moved into the OPF where post-landing operations will take place.



### Atlantis (OV-104)

The Space Shuttle Atlantis is still undergoing modifications and refitting at the Rockwell International Plant in Palmdale, California. Atlantis is the last orbiter to receive the overhaul, which will allow for longer missions and landings assisted by a drag chute.



# NASA readies Columbia for launch

## Auxiliary power unit changeouts begin preparations for STS-58

By Brian Gamage  
Space Technology Editor

The Space Shuttle Columbia on Thursday rolled out to its launch pad perch where it will wait for about a month to begin its next mission into space.

Workers at Kennedy Space Center (KSC) ran into a problem just before the mobile launch platform, the largest tractor in the world, was to drop the shuttle off at the pad. Eight of the sixteen electrical generators used to power the platform shut down and had to be replaced.

Once on the pad, Columbia underwent Auxiliary Power Unit (APU) replacements. Two of the APUs were discovered to have a high level of buildup in the drive shafts.

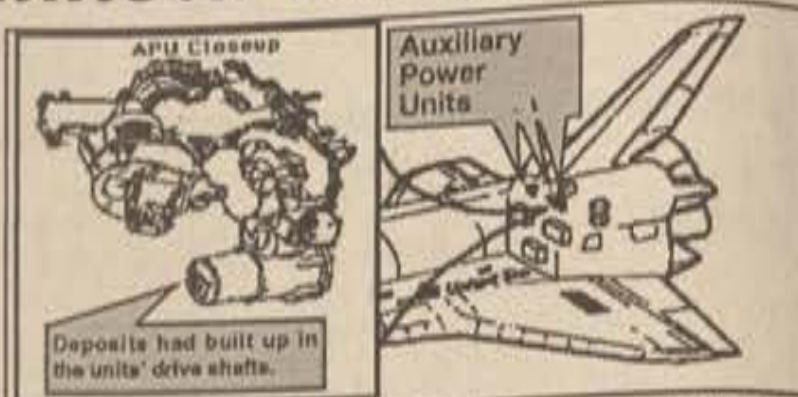
When KSC workers inspected the Solid Rocket Boosters (SRB) from a previous mission, they found a broken shaft that may have been caused by the APUs in the boosters. Columbia's APUs were X-rayed and two of them replaced before the buildup could reach a critical level.

The APUs are designed to be reusable for fifty flights. In the event of an APU failure, the orbiter can still function safely with the remaining two.

Discovery's APUs also were inspected and found to be clean.

The seven-member crew of STS-58 will spend two weeks in low-earth orbit studying life sciences. Columbia's mission will be the longest shuttle flight to date.

Due to repeated delays from the recent Discovery mission, STS-58 is now scheduled to launch on October 14.



graph by Brian Gamage



The Auxiliary Power Units (above) supply power to the orbiter's hydraulic system, which moves the engines and wing and tail surfaces during lift off and landing. The STS-58 mission insignia (left) was designed by the seven-member crew.

# Discovery to make early morning landing

By Bill De Brauer  
Senior Staff

The possibility of inclement weather early yesterday morning at the Kennedy Space Center (KSC) gave the five astronauts of the Space Shuttle Discovery the opportunity to spend another day in space.

NASA officials decided to cancel yesterday's landing attempts when meteorologists were unable to accurately predict conditions at the landing facility due to the unstable nature of the weather.

As a result, the shuttle's five astronauts got to spend another day in space, an offer which they did not find difficult to accept.

While a landing at Edwards Air Force Base in California is always a possibility, NASA would like to try a few more times to land the space vehicle at KSC. Transporting the shuttle back to KSC from Edwards can cost NASA up to \$1 million and one week in delays, something the space agency would like to avoid.

What NASA cannot avoid is a

night time landing, which has only been done at Edwards.

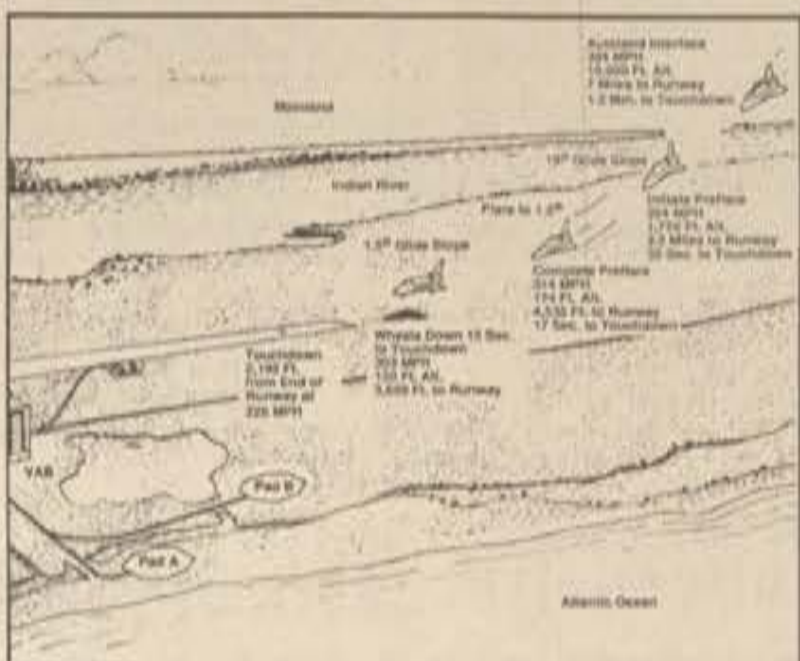
Yesterday was the only day the shuttle could have made a day time landing - a landing attempt on the second orbit would have caused Discovery to land at 7:03 a.m. local time.

The shuttle's landing windows today and the next few days fall only in the early hours of the day during the darkness of early morning.

While a daytime landing would be safer, NASA officials are not worried about a night time landing at KSC. Discovery commander Frank Culbertson has practiced both day and night landings in a shuttle simulator, say NASA officials.

Discovery is scheduled to return early this morning, at 3:56 a.m., marking the first time a shuttle has made a nighttime landing at KSC. The shuttle will have another opportunity to land at 5:31 a.m. if the first landing attempt is scrubbed.

If a landing cannot be made at KSC today, then the shuttle will try to land at Edwards.



NASA graphic

The landing pattern for a space shuttle orbiter will vary with each mission according to weather and orbit data. Most missions to date have approached the Shuttle Landing Facility from the South, not the North as is depicted in the above graphic.

# Astronauts field test space telescope tools

By Tyrus Young  
Staff Reporter

The recent mission aboard the Space Shuttle Discovery was in preparation for repairs to the Hubble Space Telescope (HST).

The astronauts deployed the ORPEUS/SPAS (Orbiting and Retrievable Far and Extreme Ultra violet Spectrometer and its Shuttle Pallet Satellite) and an advanced communications satellite.

Astronauts Jim Newman and Carl Walz completed evaluations of

tools, tethers and a foot restraint platform. These parts are going to be used in the December mission to service the HST.

The astronauts were ahead of schedule until a tool-box lid slowed them down. The tool-box had to be pulled free and closed before returning. The spacewalk was extended for 45 minutes, but the astronauts still fulfilled their other goals.

After the spacewalk, Discovery had to stop its drifting away from ORPEUS. The satellite was released

see Astronauts, page B7

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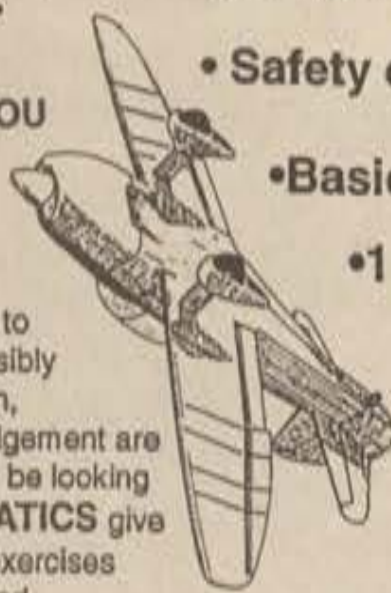


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Critic's Corner:

# Striking Distance strikes out badly

Starring: Bruce Willis  
Sarah Jessica Parker

Rated: R  
Rating: ★★☆☆  
Length: 1:55  
Playing: UA 1-3 (Volusia Mall)

By Keith Towers  
Movie Critic

(Honeymoon in Vegas) who plays Willis's new partner. She gives some much needed life to the picture, but still in some scenes seems flat. However, you knew that Willis and Parker would become romantically involved somewhere in the movie from, you guessed it, those pesky previews.

I looked for some life in the picture in the supporting cast, in the directing, and in the plot, but in the end came out of the theater with a headache from trying too hard.

I think what may have been the highlight of the film was the car and boat chases. Action in the movie was common throughout, but with Willis's smirk marking the shooting and violence, it looked like he was laughing at some of the ridiculous lines and writing.

Striking Distance is more brain-dead action rubble coming out of the Hollywood mass-production lines, and by the rating system, I would have to go with 'Worth-watching at the dollar theater,' which for this movie might be a little generous.

However, for the sake of some people who do like the typical action flick, hey, this movie might just be for you. It's not my favorite film, and I'm sure I'll forget it before too long, but I'm not your ordinary movie patron.

The feeling around the office about the movie was not as negative as my reaction, but maybe they did not see the previews that gave it all away.

I really can't wait to see Willis in those much awaited sequels *Die Hard III* and *IV*, remembering how *Die Hard II* was such a winner.

★★★★ - Can't miss!  
★★★ - Worth watching.  
★★ - Wait until dollar theatre.  
★ - Read a book instead.

Have you ever gone to the movies knowing what you would see from the previews, and hoping that what you would see would be more than just the previews over again? Well, you guessed it. What you saw is what you got.

The cool-looking stunts with the car wreck in the tunnel, the cars jumping along in the chase, and the boats jumping the damn wall were shown in the previews. Saving nothing to surprise, this movie was a disappointment the whole way through.

Starring the ever-profitable Bruce Willis, *Striking Distance* is a new cop movie with a not-so-new premise.

Willis plays a Pittsburgh police officer who got in trouble when he had enough courage to stand up to the rest of the force and testify against his own partner. He gets transferred to the river patrol where the killer finds him and starts depositing his victims in the river so Willis will find them.

Hmm... who could the murderer be? Who cares? I didn't. You probably won't either.

A bright spot in the movie could be found with Sarah Jessica Parker

# Wave Running offers thrills, spills

Wave Running is a popular recreational activity in the Daytona Beach area.

By Wayne Newby  
Campus News Editor

Do you ever find yourself wandering around the house wondering what to do? Home is far away and with it all the fun things you grew up doing.

People in Florida are no different, except that they had different fun things to choose from when they grew up.

If you are in Florida, you should try and find out what it is that a person does to have fun here.

And as long as we are on the topic of fun things to do in Florida, I feel it necessary to mention ABACO Water Sports.

ABACO is a locally owned business that rents wave runners and jet skis. Greg Rezendes and I took it upon ourselves to check this place out.

We arrived and met Stephen Brady, the owner, who is an Embry-Riddle Alumni.

Stephen never said I could call him Steve, but I will anyway because I'm lazy.

Anyway, Steve set Greg and I up with a couple of Yamaha wave runners and gave us the lowdown on how to run them.

Pretending that it didn't matter, I asked Steve if there were any sharks. He assured me that there were not, but he had seen a couple of manatees. I am definitely not into sharks; if I saw a manatee I probably would still freak.

Well, Greg and I set off on 'our' wave runners into a large area marked by buoys. Both of us determined that it would be the other guy who would fall off first. I lost.

But I lost awesomely. It happened when I was trying to turn while going full speed. This is a perfectly acceptable maneuver on a wave runner, and if executed properly the machine spins around in a spectacular spray of water. In this case the

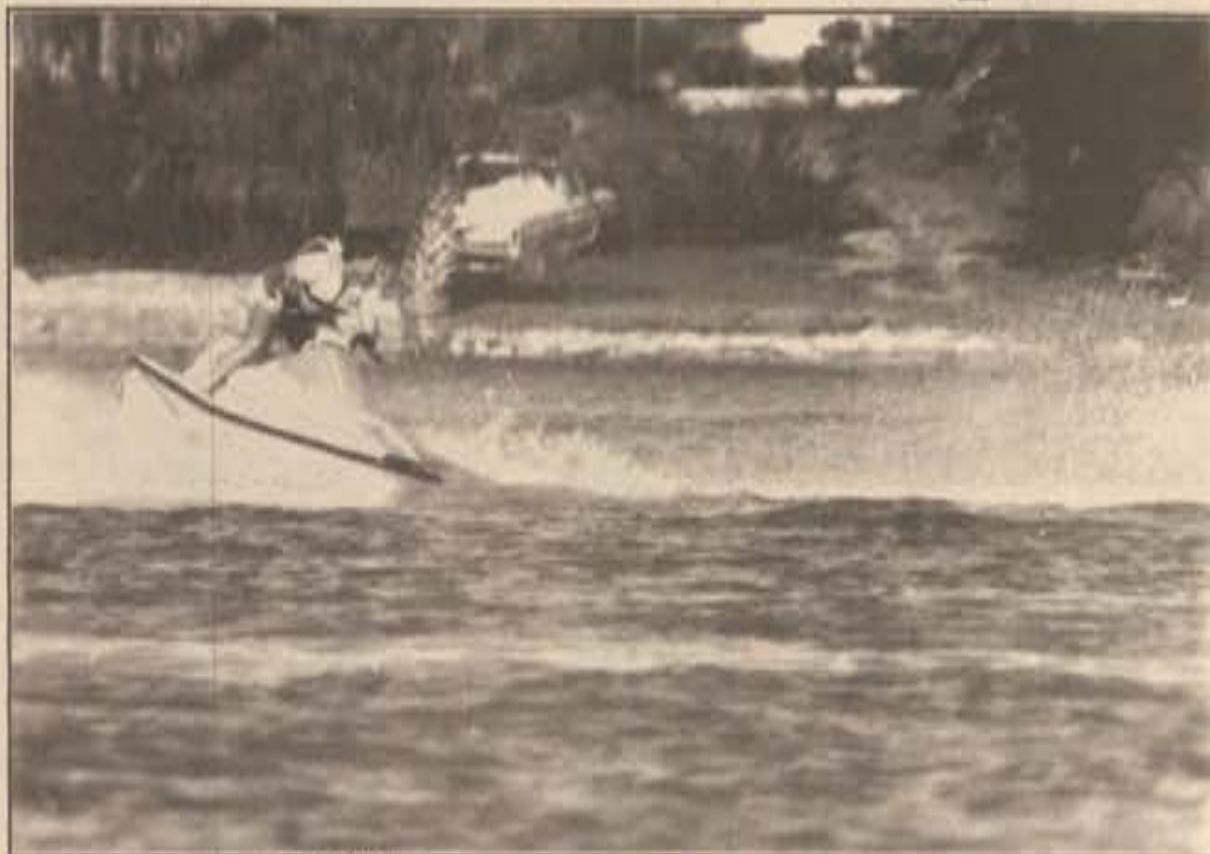


Photo by Ed Tardner

Wayne Newby and Greg Rezendes (Top) rides Wave Runners up and down the Halifax performing outrageous stunts for onlookers on shore. Information was given (right) on how to properly use the equipment. When you are comfortable with the wave runner, you can leave the "puppies" back on the porch and join the "big dogs" by trying out the stand up models.



spectacular spray came from me exiting stage left.

On the plus side, the wave runner waited very patiently for me to get back.

Don't begin to think that ol' Gregy never did his share of swimming; he did, but with incomparable macho style. He only got scared once, but that was due to stressors of a rather external nature.

All in all it was an awesome time. The water was nice and warm. It tasted nasty as hell, but it was very warm.

Steve is open 7 days a week from 10:00 a.m. to 6:00 p.m. He has 8 Yamaha wave runners, 2 Kawasaki TS 650's and 2 Kawasaki 440 stand ups. Steve's rates are competitive. He

does, however, offer \$10.00 off his hourly rates for ERAU students.

Steve also rents a pontoon boat, a Boston Whaler with a 30 horsepower motor, and a fishing boat with a 10 horsepower motor. This equipment is rented at half and full day rates.

If you need to know anything else call ABACO Water Sports at 248-2242 during regular hours.

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# New wing in museum showcases *Form from fire*

By Garrett Taylor  
Staff Reporter

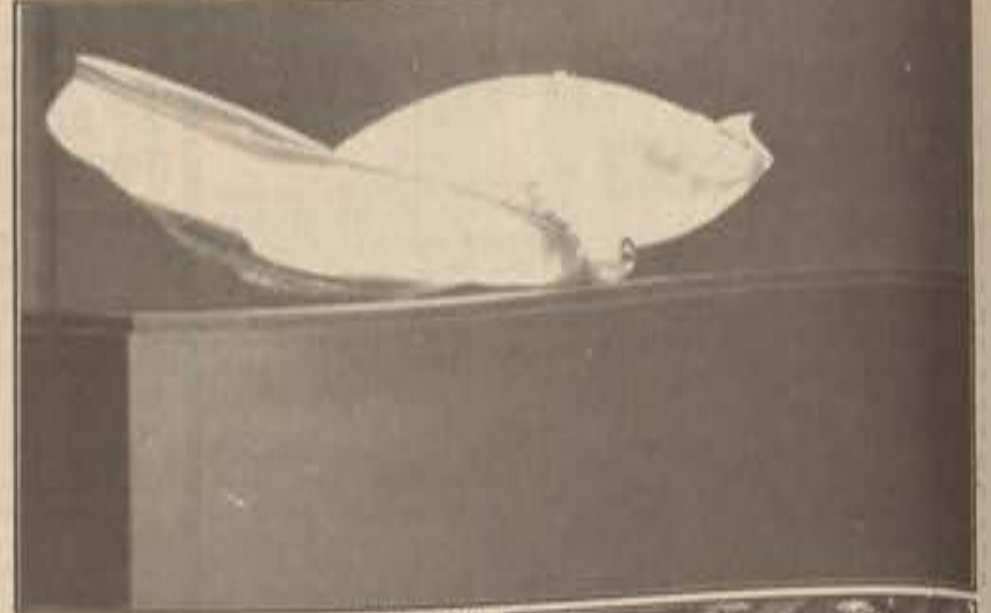
Hidden out of the mainstream of Daytona's main drag, off of a little traveled road lies one of our greatest pieces of culture. No, it's not the Coliseum or any other night club. It's not a new movie theater opening up. It's the Museum of Arts and Sciences. The museum has always been a place to see, how wild prehistoric Florida was, observe science and the stars in the Planetarium, walk among the wildlife in Tusawilla Nature Preserve and understand the African and Cuban cultures through the relics and art they have created.

But now there are a few new reasons to visit the museum. This Sunday they opened the new North wing of the museum to the public. The new wing houses the permanent Dow Gallery of American Art, an extended gallery, and the new exhibitions gallery.

The most interesting place in the North wing is the new exhibition gallery which gives more room for touring exhibitions, such as *Chihuly: Form from Fire*. But the changes don't end there.

The old trail through the nature preserve has been upgraded, the pond has been cleared out and a new pavilion has been built to accommodate handicapped persons that would like to take in the forest. Just about everywhere on the outside you can still see the scars from construction, but they are quickly disappearing under the verdant Florida growth that the Tusawilla seeks to preserve.

The original museum deserves a second look also. The Cuban culture, as displayed through the art of its people in the Cuban Museum, evokes some powerful emotions. Throughout the exhibits, the themes and subjects of the art display a close relation between religion and everyday life. Some paintings and artifacts are devoted specifi-



photos by Garrett Taylor

Clockwise from left are some of the treasures that you can find at the Museum. *Flora* is framed by the Floridian forest, while the *Ocean Pink Sea Form* stands on display in the new North Wing. Finally, this turtle is one of the Tusawilla Nature Preserve's many inhabitants behind the museum.



cally to religion with images of the Virgin Mary or the Catholic cross.

*Africa: Life and Ritual* is a display of weapons, clothing and ancient artifacts of the Dark Continent. Masks used in religious ceremonies and by chieftains are openly displayed. Through these, the integration of religion into temporal power and everyday life is vividly presented, and provides the viewer with a means of understanding of how the fracturing of Africa came about.

Located in the same wing is the *Prehistory of Florida* exhibit. This exhibit features the awesome, unfossilized skeleton of the giant land sloth found along Nova Road in an excavation for a man-made lake. Although this display is aimed at the younger audience, it still contains some fascinating information about how Florida became the over-sized sand bar that it is today.

All of these permanent exhibits are locat-

ed in the West wing along with a tribute to printed art in *Masterpieces* and *Masterprinters*, and the ever popular Planetarium.

Currently, the East wing is holding the Jacobs Collection, an extensive array of Japanese porcelain dating back to the seventeenth century. These delicate, beautiful pieces are on display and give the viewer a sense of the skill and pride that went into these dishes. It is this form that inspired the

boom of eighteenth century European porcelain.

The real attraction, however, is the new North wing. The new exhibition gallery is presenting *Chihuly: Form from Fire*, an amazing transformation of glass to art.

Within the darkened room is a mix of ethereal forms that literally glow, oversized fruit and interpretations of nature in glass.

see Museum, page B7

# Taylor Dayne's *Soul Dancing* sends out soft soothing sounds

By David Gass  
Managing Editor

*Soul Dancing* is Taylor Dayne's first album in three years and she still comes up with promising hits. *Soul Dancing* has a blend of easy and upbeat music.

Dayne has scored many number one hits over the years such as "Tell It To My Heart," "Prove Your Love" and "Don't Rush Me."

The first track on her new album is entitled "I'll Wait." This song has a kind of funky beat to it with some very good lyrics. The song is also very lively and probably one of the best tracks on the album.

The next song on the *Soul Dancing* album is "Send Me A Lover." This is more of a taylorback and relaxing type of song which is very pleasing to the ears.

"Can't Get Enough of Your

Love" is a pretty decent song on the album. It has a nice rhythm and is not too slow or too upbeat.

"Say A Prayer" starts out with a slow beginning but quickly catches up and makes the listener get into the song and perhaps make one want to tap their feet to the beat.

"Dance With A Stranger" has a nice beat to it. The song may not be among the best of her latest album, but is still a good song to listen to on

the stereo system.

"I Could Be Good For You" is a decent song on the album. It doesn't particularly grab your attention like some of the other tracks but is still worth listening to.

"Soul Dancing" immediately starts out with an upbeat tempo. This song is one of the best on the album.

"The Door To Your Heart" is a duet by Taylor Dayne and Keith Washington. The combination of

their voices into one song make it good easy listening.

"Someone Like You" has a very fast tempo as well, and the combination of her elegant voice and the background music make this a good song to play.

"Memories" is a slow downbeat song which is quite pleasant and is quite a relaxing song.

The last track on the album, "If You Were Mine," has a slow tempo

and a very relaxing sound.

Taylor Dayne has done it again. Over the years she has released hit songs and this album will be no different. I believe this album has some songs that are guaranteed to join her vast list of number one hits.

Overall, the tracks on this album are pleasing to listen to and any Taylor Dayne fan or anyone who likes relaxing, touching songs should pick it up.

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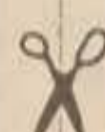
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ΔX

By Bill Tallman  
*Public Relations*

Well guys, we are back again. We hope that you are enjoying Rush as much as we are, especially you Rusbees. We hope to see everyone at the chapter meeting tonight at 7:30 and at the formal dinner (invite only) Friday night at 8:00. Thanks to the Sigma Chi's for the water balloon raids which have interrupted our rush functions and caused mental and physical damage to our brothers. Tyron is still recovering from whiplash where the non-breakable water balloons so kindly cracked the upper vertebrae of his neck. If your pool comes up missing, don't blame us! We have some

water balloons for you, but they're in the freezer right now.

The fever has popped up once again and this time it is in the Lillypad. Stay clear of the room until further notice. If not for yourself, do it for the loved ones in your life.

Congratulations to Travis Hughes on his new job. Now we can go to the house without feeling like we are at a used car lot.

Brothers and others, have a great week and we hope to see you all at the house soon. We will once again leave you with our words of wisdom in this edition of the thought of the week:

RUSH DELTA CHI!!  
YOU WON'T GO WRONG!!

AHP

By Dominick J. Dunnigan  
*Historian*

We had a great turn out for the wet Rush party last Saturday at the Marker. The final count was around 500. I trust you all had an excellent time!!

The semi-formal Rush dinner this past Friday and the barbecue cook-out on Sunday were both a success, too. There were many prospects showing an interest in Alpha Eta Rho. Those prospects had a meeting last night to discuss the upcoming pledge period. First interviews will

be held at the business meeting on Thursday, September 23 at 1900. It's still not too late to come out and become a part of Alpha Eta Rho. Call Rich at 767-1015 for more information concerning first interviews tomorrow evening.

Don't miss out on a great opportunity that will provide many more opportunities in your future. Become a part of the Beta Omicron pledge class this Fall...then a part of the only International Aviation Fraternity in the world at the best aviation school in the nation: Alpha Eta Rho, Epalton Rho Hangar!!

Aerospace Society

By Matt De Vitto  
*Historian*

Thanks to all who helped during the Activities Fair and at the barbecue on Saturday. Both were very successful. We will be collecting dues this week, \$5 for the semester and watching a movie. We will also be selling club T-shirts and collect-

ing money for Wet'n'Wild. There will be a speaker from McDonnell-Douglas at the meeting on September 29.

Don't forget the car wash on Saturday, September 25 and the trip to Wet'n'Wild in Orlando on Saturday, October 2.

See you at the meeting tonight at 7:00 p.m. in room E-611.

Sailing Club

By Bryan Rosko  
*President*

Welcome Back Everybody! HATTERAS= PURELY BALLISTIC FUN. TO ALL INCOMING FRESHMAN: in case you didn't know, good ole Embry-Riddle has a club that requires no physical ability or mental capacity. The club is about having FUN. That's it. Things have changed. We will be actively sailing and windsurfing every weekend at the Halifax Sailing Center. (Directions are posted in our glass case across from the barber shop) In addition to sailing, we party. Any questions?

If you need to relieve stress, or think you're turning into Heavis,

join the gang on the river. You don't need skill. You do need a pulse. (Insurance reasons) Dornn dwellers without transportation- call me at 257-4370 for a ride. Bring friends, and an appetite. We provide all equipment for your unlimited use.

We are having an open info meeting tomorrow 9/23 at 7:30 in the cafeteria meeting room. We are having a big party soon to celebrate some birthdays. Live Reggae. We are going to races soon! So come to the meeting to find out how you can get involved. To get on our mailing list, sign your name up on sheet on our case.

And finally, I'm not only the new Sailing Club president, but I'm a looney who will make you have fun too!

ΣX

By Jim DeForest  
*Chapter Editor*

Sigma Chi wishes to welcome everyone back for the fall semester. Congratulations and thanks go to all the brothers who worked hard on our public relations project this past weekend; way to go John Hall! This earns you brother of the week, 9/14/93. This promises to be productive and a lot of fun. We would like to thank everyone who attended the IGC party last Friday night. The skit turned out to be a great success with all the fraternities and sororities participating. Let's hope that future events will bring out the same cooperation and fun times as this one.

Our rush schedule is intense this semester and we encourage everyone to participate and have a good time. This semesters rush was

kicked off by a great performance by the reggae sounds of the Whirlwinds. Monday night football and Jays winds were was another great success. To top our rush week off, the Sig's proved to be on top by having Big Wide World put on an amazing show this past Friday night. We encourage anyone who is interested in Sigma Chi to attend our formal rush function this Friday night.

Bliff, watch out for the placental Touch it. How'd your diego? Maaa... muchos panetas?? Lets get it straight. Cupcake, we need to hear some more Pearl Jam. Bones, keep swinging; Pfaucet, what's with the limp? The silly mexican needs a home for his dog. Gary, TURN BASE JERKY. T-Money, easy on the roid rage, killer. Jobe, I liked her better blonde. Fingers, hear about the country singer, Harry Connick?

Clubs Policy

- All articles must be type-written, double spaced or on disk format (unformatted in Word Star or Microsoft Word).
- Deadline for submission of all club material is Wednesday at 5 p.m., one week prior to publication.
- Photos may be submitted with club articles.
- All submitted material becomes property of the Avion with the exception of disks.
- The Avion reserves the right to edit all submitted copy.
- For more information stop by or call the Avion office at (904) 226-6049.

ΘΦΑ

By Nadia Schimmel  
*Public Relations*

Hey you sexy theta phi's!!! This article would have been in last weeks paper, but they have a silly policy that you can't turn it in the same day *The Avion* comes out (Stupid huh?) But here it is now and I don't want anyone to worry that I'm going to abuse my power and write anything to embarrass anyone.

(By the way Barb, what were you doing behind the dorms the other Thursday night?) Well Rush is almost over and I know we're going to have a good turn out. I'm just

excited to have pledges again, my car is really dirty (just kidding). Don't forget Friday night and have fun whipping up your food dishes. If you go to Publix to buy your groceries take Jen with you because she can get you a discount (If you can't find a good man raise one!!)

P.S. Kelly when it's over it's over.

Jen "lick it."

Amy does it bend the right way?

Barb how many noodles does it take to fill a tub?(And please use different ones for the pasta for Friday).

P.S.S. Don't worry I'll get the rest of you next week!!!

Rugby Club

By Jason Richter  
*Club member*

On Sept. 11, the Daytona Beach/Embry-Riddle Rugby club played the University of Florida team and won a decisive victory over the Gators 34-0. The Daytona Beach/Embry-Riddle rugby club is a hybrid team made up of players from the university student body, alumni, and non-student, city residents. Some of the regular student players are Mike DePire, John Garvey, Chuck "Chuckie" Hitcho, Rick Kurk, Paul Johnson, "Catfish" Rainey, Lenny Siriwardene, Charles Link, Jeff Pager(alumni), and Jack Shields(alumni). We have an upcoming home game Oct. 9, and we encourage you all to come out and support the team. More details about the game will be posted in future articles.

WHAT IS RUGBY?

The game of Rugby is divided into two forty minute halves with no more than a five minute break between, during which no player may leave the field. At the final whistle, both teams clap each other off the field and shake hands with

their opposite number. This tradition is seen in no other sport that we know of and, soon thereafter, begins the "third" (and some say most important) half.

The "third half" is another strictly kept tradition which dictates the host team provide beer (and food for overnight visitors) as well as a place to spill it after the game.


In this third half, songs are sung, cigars smoked, stories swapped, techniques compared, and friendships formed. Comparing notes on techniques strikes the uninitiated as quite a foreign practice, but makes sense when one considers that a win is much more glorious got at the expense of a really good team.

The third half allows, on the one hand, players on the field to do all kinds of dastardly things to one another and, on the other, to part the game as friends. Such socializing eases tensions, keeps players familiar, needless injury at a minimum, standards of play high, and of course, continues the tradition of camaraderie.


Makes more sense than boarding a shuttle bus home only to see the opponent again on the field of "battle," doesn't it?

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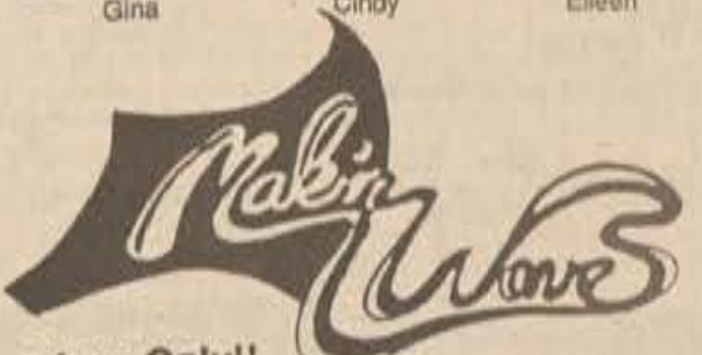
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Calvin and Hobbes

by Bill Waterson



Dave

by David Miller



Far Side

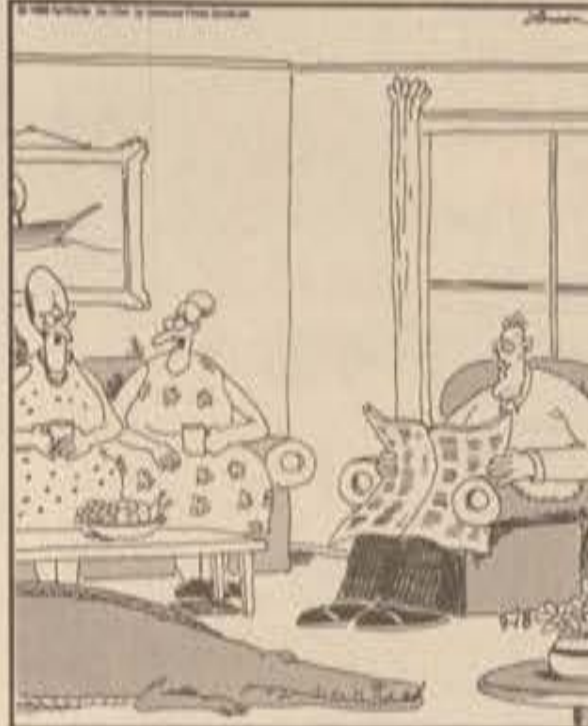
by Gary Larson



Once again, Vernon has a good shirt ruined by a cheap pocket octopus.



"Now, you can't hurt each other with those things, so next time you bicker, just go ahead and vent your anger—you'll both feel better."



"No, they're not real exciting pets—mostly they just lie around and wait to be fed—although a couple of years ago Charles tried teachin' him to take a cookie from his mouth."



Vacationing from their jobs of terrorizing young teen-agers, zombies will often relax at a Western dead ranch.



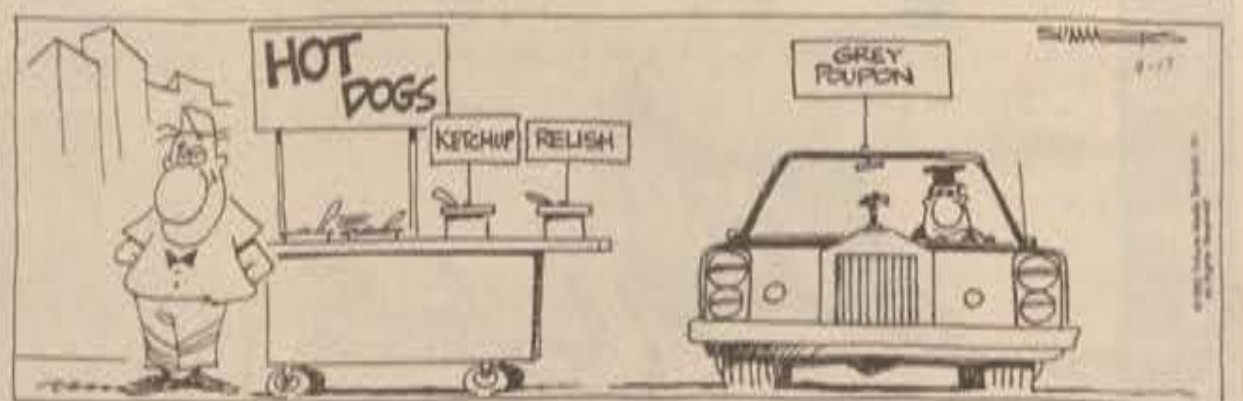
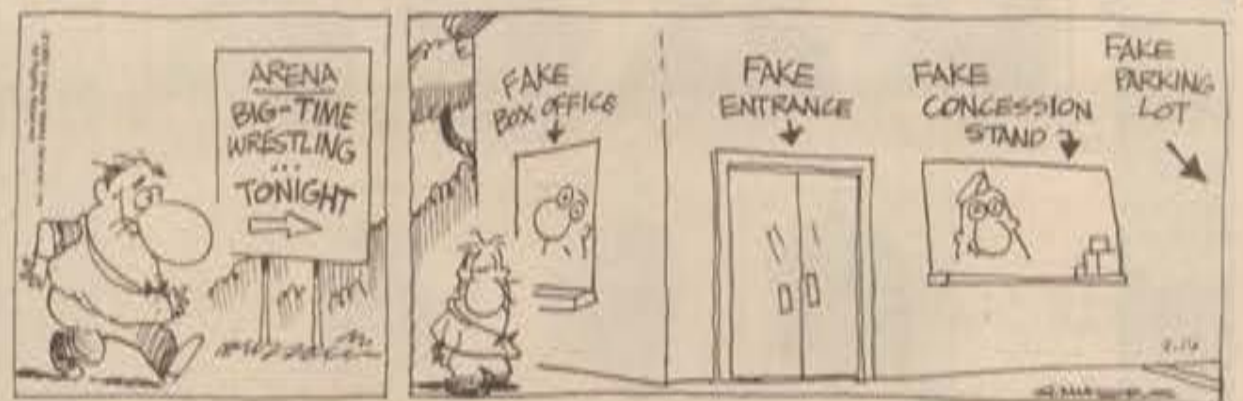
After being frozen in ice for 10,000 years, Thag promotes his autobiography.



At the Vatican's movie theater

Bound and Gagged

by Dana Summers





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Queen size sleep sofa \$150; Queen size sleep sofa with matching chair \$150; 2 door file cabinet \$10; remote control helicopter everything \$500; IBM compatible computer with color monitor and printer \$400. Call 677-4423 or box 8566.

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Open question...what is love?

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## Miscellaneous

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Seniors-Don't Wait. If you are graduating this fall or spring, you need to get your resume in order now. Call Kim @ 759-8560. Affordable prices, also do typing.

Lost: Mini-Maglite at flight deck in UC last Wednesday. Please return to box 5519 if found.

## Personals

Hey Redhead  
You didn't go and act like yourself on Friday, did you? No wonder your phone never rings! Give yourself a hug from me!  
Hal

The wise old owl is here. He knows all and sees all.

## Museum

(continued from page B4)

The combination of organic shapes, with both bright colors and subtle shades and the hard, unyielding glass, make for shapes that one could imagine as life forms in a deep sea trench, resplendent in luminosity and frozen in time.

Should you not care for the abundance of man-made art, a quick walk outside the entrance lobby opens into the lush Florida wilderness. Be careful, as the nature trail to the *Window in the Forest* pavilion is a sharp left, and can easily be missed. Although the preserve is still showing signs of construction, you should still step lightly and quietly. Careful observation is needed to avoid the spun webs of thorny spiders, and listening quietly lets you catch a glimpse of the inhabitants roaming in the underbrush.

When talking about the museum, it would be in bad form to leave out the sculpture garden that dominates the entrance to the south parking lot. Large forms in concrete and/or steel demonstrate the post-modernism style among other art styles. For students, this is a perfect and accessible group of objects to do critical essays for the various Humanities courses.

This is an interesting and informative place that everyone should take the chance to enjoy. Admission for students, with a valid ID, is just one dollar, and for what the museum holds this is quite a bargain (Fridays are free admission). The Museum of Arts and Sciences is

located off Museum Street (appropriately named) which connects with Nova about a third of a mile south of the Nova and International Speedway Boulevard intersection. The museum hours are from 9 a.m. to 5 p.m. on weekdays and from noon to 5 p.m. on the weekends.

## Astronauts

(continued from page B2)

on September 13 and was retrieved on Sunday.

The shuttle was guided to within 35 feet of the satellite by Commander Frank Culbertson. After this maneuver, mission specialist Dan Bursch used a robot arm to grab the satellite.

Bursch then moved the arm through 11 different positions to allow an IMAX camera to photograph the shuttle. All of these activities went smoothly. Bursch also tested the arm to help plan for a 1994 mission that is to carry the Wake Shield Facility. The facility needs to be moved about in the same manner as ORFEUS/SPAS.

On Monday the crew of the shuttle prepared to return to Earth. Culbertson and pilot Bill Reedy, checked the flight control surfaces, and thruster jets. One jet failed and another showed improper pressure, but it is expected that the jet failures will not affect the orbiter's performance.

Later Monday the crew began packing to start the trip home, but got to spend another day in orbit due to inclement weather at Kennedy Space Center.

## Beech

(continued from page A1)

prototype aircraft (PT-2) initially flew in December 1992. It is the first of two fully missionized aircraft built by Beech.

It was used to complete the flight test program and for evaluation of aircraft systems performance. Numerous producibility and maintainability enhancements were included in this aircraft.


"PT-2 has completed 180 flight test hours. It meets all of the JPATS requirements including anthropometric, zero/zero ejection system, bird strike and pressurization," said Riemer.

The second Beech built production aircraft (PT-3) first flew in July 1993. This aircraft will be the primary aircraft for the Air Force and Navy's flight evaluation. The aircraft has completed 20 hours of flight test. Several improvements were included in this aircraft.

"The maturity of the design and flight test program, coupled with the successful demonstration of the zero/zero ejection system, which meets anthropometric requirements, makes the Beech PC-9 MkII ready now to meet the training needs of tomorrow," Riemer added.

Beech Aircraft, a unit of Raytheon Company, has produced aircraft training systems since 1940. Beech manufactures tanker/transport jet trainer aircraft for the Air Force and target missiles for the Air Force, Navy and Army.

**IMPROVE YOUR NIGHT LIFE.**



Too many accidents are caused by car drivers who didn't see the motorcyclists. That's why reflective vests, bright clothing, and reflectorized tape are so important. They help you be seen. And standing out in a dark, crowded road can keep your evening from being ruined.

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**GET QUALIFIED TO RIDE.**

Unlicensed riders account for 80% of the fatalities in some states. So get your motorcycle operator license today. And prove that you can ride safely.

**MOTORCYCLE SAFETY FOUNDATION**

# Frasca 141 Simulator Time Plus \$5.00/Hour

The Center for Aviation/Aerospace Research (CAAR), located in the Campus Extension Building across from the Speedway, is looking for students to participate in an experiment using a Frasca 141 simulator with interactive graphics. Minimum requirement is a private pilot certificate. If interested, fill out the form below and drop it in campus mail addressed to Sam Kelly, CAAR or call 226-7102 for additional details.

Cut Along Dotted Line

Name (print): \_\_\_\_\_

ERAU Box: \_\_\_\_\_

Local Address: \_\_\_\_\_

Phone: \_\_\_\_\_

daytime

evenings

Date of Birth: \_\_\_\_\_

month/day/year

ERAU Flight Student? (circle one): Yes No

## FLIGHT EXPERIENCE

Flight Certificates (circle all that apply): Private Commercial CFI ATP

Ratings (circle all that apply): Instrument Multi Glider Seaplane Other

Total Flight Hours (approximate): \_\_\_\_\_ Last 30 days: \_\_\_\_\_ Last 90 days: \_\_\_\_\_

Simulator Hours (approximate): \_\_\_\_\_

Frasca Experience? (circle one): Yes No If yes, how many hours? \_\_\_\_\_

Please drop completed form in campus mail addressed to: Sam Kelly, CAAR or call 226-7102 for further details.





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& Ristorante

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New York Style Pizza  
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BETWEEN HOOTERS AND 7-ELEVEN  
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ROW

SEAT

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Call today and reserve  
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9 pm -- 1 am → \$5.00 \*All You Can Drink\*  
1 am -- Close → 75¢ Drafts and \$1.50 Drinks

**Finally Friday Drink Bust!!**  
**\$8.00 ALL YOU CAN DRINK** W/ ERAU ID  
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