

4-10-1991

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Embry-Riddle Aeronautical University

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# AERONAUTICA

## Embry-Riddle Grad Tom Crevasse keeps Warbirds flying



**Tom taxis out...**  
 A T-6 restored by Tom Crevasse of New Smyrna Beach is flown at an airshow, this aircraft is an example of the many restorations he has done.

by John McDermott  
 Aeronautica Editor

At the many airshows around the country, especially airshows like TICO, Osh Kosh, and Sun 'n Fun there are always plenty of warbirds. These aircraft have been beautifully restored and are maintained in excellent condition, and chances are that several of the warbirds you see at these shows have had the hands of Tom Crevasse maintaining them.

Tom Crevasse owns Vintage Props and Jets at New Smyrna Beach Airport, and along with his wife Linda they run an FBO and do maintenance on Cessna 152's to F-86 Sabre's.

Tom has been restoring and flying vintage aircraft for over 25 years and it all began at Embry-Riddle. After graduating from Santa Fe High School in Alachua, FL, Tom attended Embry-Riddle in Miami where he was in the next to last A&P mechanics course before the

biplanes and started cropdusting with 89 hours of flight time. After three years in Georgia Tom returned to the Live Oak area and spent 20 years in the cropdusting business without any accidents. During this time Tom performed in airshows throughout the Southeast flying P-51's Corsairs, T-6's, and Stearman's.

In 1975 Tom restored a Stearman for a friend that started out as junk and ended up an award winning aircraft, there was no charge for the work done and this is one of many demonstrations of his love of aviation. Tom also taught the youngest of his two daughters to fly. Tom's daughter soloed on her sixteenth birthday in five different airplanes. The aircraft were a Yale, T-6, J-3, C-150, and C-172.

After a divorce Tom spent the next several years moving around the country and flying at airshows, while at an airshow in Lake City Tom met Linda who was also from Live Oak. While their paths crossed several times, they had never met, but within 30 days of the first meeting they were married. Since meeting Tom, Linda has learned to fly and made a tandem parachute jump.

About ten years ago Tom started to really get involved in the warbird restoration business, and until recently felt he was "a little guy in the restoration world", but after spending a few years away from the airshow circuit Tom returned to Osh Kosh "since the year before last everyone was interested in where I had been, I looked around and saw all the aircraft I had worked on, and realized the mark I had made, and I felt a real sense of accomplishment but I don't feel big, I'm still broke".

The 100 or more aircraft that Tom has restored have received many awards. Since

Tom started restoring warbirds seven have won awards at Osh Kosh, last year three aircraft at Sun 'n Fun received awards, and at TICO this year he had restored or maintained at least eight of the warbirds there.

Tom can probably claim the record for the most warbird restoration awards at Osh Kosh over the years, and claims that he can build an award winner any time with the right aircraft and an owner with plenty of money. According to Tom the money part of the restoration business is unfortunate "the sad thing is working huge man hours, if you could take the money factor out of it it would be the most fun job in the world". Nevertheless Tom says "that what I do, I can find nobody, nowhere that enjoys what they do more and gets more enjoyment".

Besides all of his maintenance experience Tom has 20,000 hours of flight time in over 150 aircraft types. He holds Commercial, In-

strument, Multi-engine ratings, a B-25 Type Rating, and a FAA Letter of Authorization for aerobatics in any make and model aircraft for any maneuver at any altitude, along with an A&P with Inspection Authorization. The latest aircraft types that Tom has moved into are jet warbirds, and Tom has flown the T-33, Casa Jet, and F-86.

Current restoration work at Vintage Props and Jets are two T-33's, a T-2, and another F-86 is coming in this month. One of the T-33's will remain at Vintage Props and Jets and will be available for jet instruction and checkout, but not for solo flight. Several of Tom's aircraft restorations are expected at Sun 'n Fun this year, but if you are down at New Smyrna Beach airport stop by the southeast part of the field and you can see for yourself the amazing work and care that keeps these rare airplanes flying.



**At home...**  
 Tom Crevasse in front of a Stinson at his maintenance facility on New Smyrna Beach Airport.

...Tom has been restoring and flying vintage aircraft for over 25 years and it all began at Embry-Riddle.

## ERAU Instructor to lecture at AMTECH 91 maintenance tradeshow

by John McDermott  
 Aeronautica Editor

On Tuesday April 16th Embry-Riddle AMT Instructor Mike Williams will give a lecture on Aircraft Composite Repairs at AMTECH 91 at the Orange County Convention Center in Orlando.

AMTECH 91 is an aircraft maintenance tradeshow and conference, to keep industry professionals abreast of the latest technologies and trends in aviation maintenance and ground support equipment. Some of the exhibitors will include companies such as Aero-Maintenance Services, AeroTech Support, Union Industries, and many others.

Mr. Williams will give a 50 minute presentation on Recent Advancements in Composite Repairs, and will cover repairs for composite and metallic structures, and the equipment needed for repair shops. There are eight other seminars scheduled on April 16-18 at the tradeshow, and there are over 3000 registered industry professionals who will attend them.

AMTECH 91 will also have over 200 exhibitors displaying aircraft maintenance tools, equipment, and hardware.

...AMT Instructor Mike Williams will give a lecture on Aircraft Composite Repairs at AMTECH 91 at the Orange County Convention Center in Orlando.

Here at Embry-Riddle Mr. Williams has instructed AMT-202, Non-metallic Structures for the past six years. Since coming to Embry-Riddle in 1984 Mr. Williams has earned a Masters Degree from E-RAU, he holds an A&P and is an FAA Designated Maintenance Examiner. Prior to coming

here Mr. Williams was an Air Force mechanic on B-52's and F-15's.

In the AMT-202 class there is an ongoing project that the students are working on. The project that Mr. Williams is overseeing for interested students is the construction of a Rutan Long-Eze. The Long-Eze is a fiberglass kit aircraft designed by Burt Rutan designer of the Voyager and other kit airplanes. The project is about a third of the way completed, with the fuselage built, and the wing structure complete and ready for the skin to be applied. Hopefully in the next couple of years the aircraft will be ready for flight.



**Flying formation...**  
 The Angels performing at the NAS Cecil Field open house and Desert Storm salute.

## Airshow season in Florida

by John McDermott  
 Aeronautica Editor

Airshow season has come to Florida, starting this past weekend with the Naval Air Station, Cecil Field Open House. Also going on this week is the EAA Sun 'n Fun in Lakeland, MacDill AFB Open House in Tampa, April 13, 14. AMTECH 91 in Orlando, and Skyfest in Daytona on April 20, 21.

The Cecil Field Open House and Airshow in Jacksonville, FL featured the US Navy Blue Angels in the P/A-18 Hornet. The show was a tribute to the soldiers, sailors, airmen, and Marines of Desert Storm, and many of the aircraft on static display, and performing flying demonstrations were recently returned from the Persian Gulf theatre.

This past Sunday was also the National Day of Recognition for the troops of Desert Storm, and at Cecil Field a ship's bell was rung once for every serviceperson from Cecil Field who did not return from action in the Gulf War. Some of the aircraft present were a B-52, B-1, several fighters including a desert camouflaged A-7.

Several other aviation events are taking place now, and within the next two weeks. Starting this

past Sunday, and continuing through this Saturday, April 13 is the Sun 'n Fun Fly In at Lakeland, FL. The Sun 'n Fun Fly In features many homebuilt aircraft as well as warbirds. Seminars are scheduled each day on aircraft construction for kitplanes, speakers from AOPA, and FAA seminars on different topics.

This weekend in Tampa, FL MacDill AFB is having an Open House and Airshow. The MacDill AFB airshow will feature the US Air Force Thunderbirds, with civilian and military aircraft performing aerobatic flight demonstrations.

April 16-18 is the AMTECH 91 tradeshow at the Orange County Convention Center in Orlando. The Aviation Maintenance Show will feature seminars and displays from over 200 companies.

The Daytona Skyfest on April 20 and 21 will feature the Thunderbirds on Saturday only. The airshow will be a salute to Desert Storm and former POW, Marine Captain Russell Sanborn will be the Guest of Honor. Captain Sanborn is a Harrier pilot and native of Deland. Skyfest is expected to have one of the largest gatherings of different military aircraft on display in the United States, and will include a display of Army



**Warbird restoration...**  
 One of Tom Crevasse's restored aircraft on display at a recent Florida airshow.

## Rockwell/MBB X-31 explore thrust vectoring in X-31

Frances L. Cozza  
 Aeronautica Writer

The X-31 based at a test facility in Palmdale, California is one of the first to be tested for stall conditions in military tactics. Rockwell and Messerschmitt-Bolkow-Blohm (MBB) as well as funding from both the U.S. and German governments developed the X-31 jointly and is the first international X-plane.

Rockwell and MBB in 1986 divided up the developmental responsibilities. MBB handled the flight control system and fabrication of the wings and thrust vectoring paddles and Rockwell continued the rest.

The X-31 has many characteristics because it has bits of other aircraft designs to it, such as the F-16, V-22, A-7D, and Cessna Citation.

The dynamics of the X-31 to overtake the problem military pilots had in the past with rate of turn and attack are compensated by a technique called thrust vectoring developed by Wolfgang Herbst. At

the rear of the fuselage there are a trio of paddles protruding which maneuver into the exhaust plume.

By deflecting its thrust 10 degrees from the center line, and with an automated flight control system, pilots will be able to put the airplane into a steep 70 degree angle of attack while pointing the nose away from the flight path. This is called flight path decoupling and will enable the X-31 to turn in about half the airspace required by conventional aircraft.

To assist in better maneuverability in the all-aspect missile environment, the X-31 shows great agility by increasing the turn rate and it being accomplished by being in a stall. This gives you a time advantage to fire a little more quicker than your opponent.

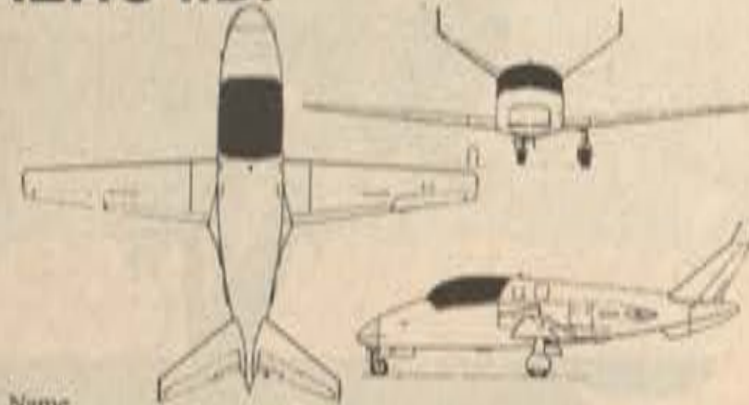
One of the reasons for the post-stall regime in the X-31 is because it doesn't rely on a rudder. At high angles of attack, rudders become completely ineffective. In the X-31, at angles of attack above 45 degrees the rudders are disabled. Herbst's solution,

in order to generate yaw without an effective rudder, was solved to harness the propulsive power of the engine to help control the aircraft. Research is being conducted on three U.S. vehicles since there is a great advantage for high angles of attack in flight.

In addition to the X-31, the X-29: the STOL Technology Demonstrator, an F-15 which has been retrofitted with a thrust vectoring nozzle and is being tested for short-takeoff and landing technology for the Air Force; and an instrument packed NASA P/A-18 called HARV, for High Alpha Research Vehicle, equipped like the X-31 with multi-axis thrust vectoring paddles.

The first 98 flights of the X-31 will test only for airworthiness and the conventional handling characteristics. It will take another 200 flights to prove its post-stall capabilities. Only then, in early 1992, will Rockwell and MBB turn the aircraft over to the military to test its combat effectiveness, where pilots will fly 120 demonstrations.

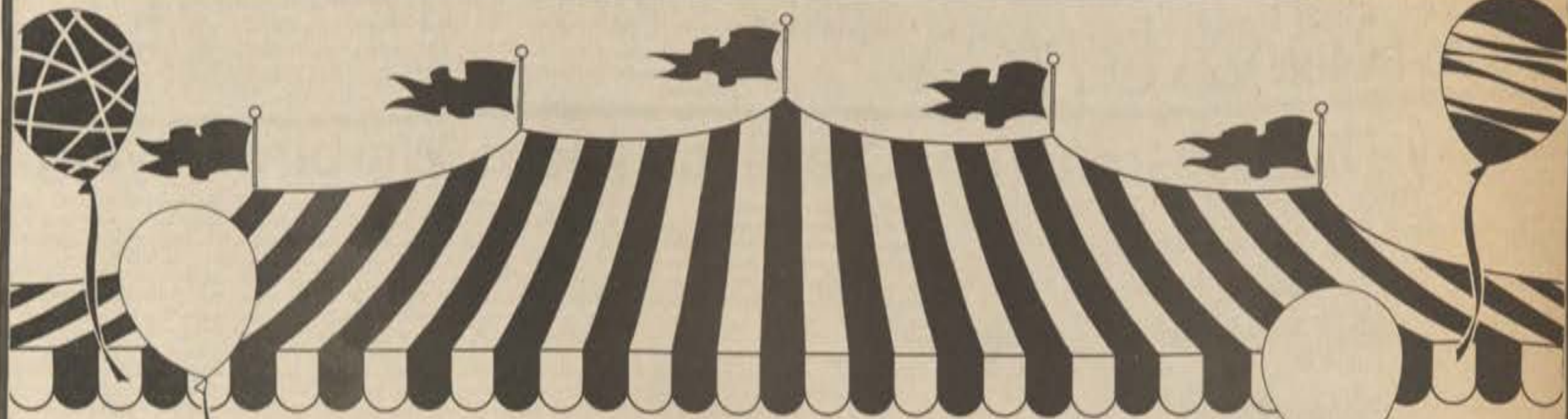
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Return this form to the AVION. The first correct entry as to the exact identity of this aircraft will win a free submarine sandwich of their choice from Sorrento's Deli. The student publication staff, their families and previous winners are not eligible.





**ATTITUDE ADJUSTMENT**

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## NASA announces new space shuttle launch schedule

### 1991 Shuttle Launches

DATE	MISSION	VEHICLE	PAYLOAD
April	STS-37	Atlantis	GRO
April/May	STS-39	Discovery	AFP-675/IBSS
May	STS-40	Columbia	SLS-1
August	STS-43	Atlantis	TDRS-E
October	STS-48	Discovery	UARS
December	STS-44	Atlantis	DSP

ing the connections to the external tank caused the necessary rescheduling.

The new manifest plans to begin with the launch of the Gamma Ray Observatory aboard the *Atlantis*, which occurred last Friday. *Discovery* will then fly the postponed STS-39 mission in late April or early May after repairs upon the cracks are completed. The ambitious forecast also calls for *Columbia* to execute the Spacelab Life Sciences mission, STS-40, in May. Following STS-40, *Columbia* will be temporarily retired as structural inspections and modifications for the External Duration Orbiter program will be made.

STS-43, the Tracking Data Relay Satellite mission, is now scheduled to utilize *Atlantis* in August, rather than *Discovery* in July as originally planned. This requires the movement of the Defense Support Program mission on *Atlantis* from August to December. These rearrangements permit the flight of the Upper Atmo-

sphere Research Satellite aboard *Discovery* within its required launch window in October.

Projected to kick off the 1992 flight year, *Discovery* will fly STS-42, the International Microgravity Laboratory mission in February. This mission was originally to have been launched in December 1991. Also scheduled for 1992 is the Tethered Satellite System and the European Space Agency's European Retrieval Carrier aboard *Atlantis* in August as opposed to February on *Discovery*.

The remaining 1992 flights will remain unchanged. The new space shuttle *Endeavour* will make its maiden voyage in May, 1992, reboosting an Intelsat satellite. Spacelab-J will mark *Endeavour's* second mission in September 1992.

This revised Mixed Fleet Manifest carries NASA's shuttle plans into September of 1992. Adjustments to the plan beyond this time are current-

### 1992 Shuttle Launches

DATE	MISSION	VEHICLE	PAYLOAD
February	STS-42	Discovery	IML-1
April	STS-45	Atlantis	ATLAS-1
May	STS-49	Endeavour	INTELSAT-R
June	STS-50	Columbia	USML-1
August	STS-40	Atlantis	TSS-1/EURECA
September	STS-47	Endeavour	SPACELAB-J
September	STS-50	Columbia	USMP/LAGEOS CANEX

under further inspection and will be announced at a later date. The schedule reveals the very ambitious nature of the shuttle program over the next year and a half.

by Brian D. Marcheseault  
Space Technology Writer

NASA released modifications through 1991 of the space shuttle launch schedule, known as the shuttle manifest, on March 21. The revised

plan includes the announcement of the first flight of the new *Endeavour* orbiter. The adjustments were made in order to account for the postponement of STS-39 in March. Cracks on the space shuttle *Discovery's* doors hous-

## Magellan mosaics of radar images to be stored on CD

by Joshua S. Mussal  
Space Technology Editor

The planet Venus may be venting interior heat through giant hot spots called coronae, a form of volcanism, a Magellan scientist at NASA's Jet Propulsion Laboratory said.

The Magellan spacecraft has mapped with imaging radar more than 67 percent of Venus since last September 15. The first 243-day mapping cycle ends May 15.

"Coronae may be hot spots, the surface expression of hot material rising from the interior of the planet," said Dr. Ellen Stofan, a geologist on the Magellan project.

She said coronae are among the several types of circular features associated with volcanism that have been identified on Venus. Other include large volcanoes and spider web-shaped features called arachnoids.

Coronae are circular or oval features as much as a mile or more high surrounded by a ring of ridges and troughs. They range in size from 100 miles to more than 600 miles in diameter and are seen in many low-lying plains regions on Venus.

Arachnoids are circular volcanic structures sur-

rounded by complex fractures. They may form by volcanism in a region where the surface is pulling apart or extending, Stofan said.

"Coronae, arachnoids and volcanoes are ways in which Venus transfers heat from its interior out to the surface," she said. "On Earth, this loss or transfer of heat is dominated by plate tectonics. It is too early to determine if Venus also has plate tectonics, but hot spots do seem to be important to Venus' heat loss."

The project also announced that the first compact disc read-only-memory, or CD-ROM, containing Magellan mosaics of radar images, was released to the Planetary Data System Center (PDS) and the National Space Science Data Center (NSSDC) for public distribution. One CD-ROM can hold about 600 megabytes of information or about 270,000 pages of text. The information can be easily accessed with a computer using a CD-ROM reader similar to audio CD-players.

"Distribution of data to the public by CD-ROM will revolutionize the way science is done," said Project Scientist Dr. Steve Saunders. "CD-ROM technology provides an excellent way to store, distribute and access large volumes of data."

**One CD-ROM can hold about 600 megabytes of information, or about 270,000 pages of text.**



### Ten years and counting...

This Friday, April 12, will mark the tenth anniversary of the first space shuttle flight by astronauts John Young and Robert Crippen.

## Space Shuttle Endeavour to rollout April 25

NASA News (Kennedy Space Center) - The rollout of NASA's newest Space Shuttle orbiter, *Endeavour*, is scheduled for April 25, 1991, at a ceremony at Rockwell International's Space Division Facility in Palmdale, California.

The week following the rollout, *Endeavour* will be mated to the new Shuttle carrier aircraft, flown to Johnson Space Center, Houston, for an overnight stay and then to the Kennedy Space Center.

## Orbiter Update



**ATLANTIS...**The Space Shuttle *Atlantis* lifted off from launch pad 39-B on Friday, April 5 at 9:22 a.m. The solid rocket boosters have been towed in to Hanger AF on Cape Canaveral Air Force Station on Saturday. Currently the solid rocket boosters are being disassembled and undergoing post flight operations. Hydroclasing operations are underway to remove the thermal protection foam and cork from the boosters.

Landing today is scheduled for 10:34 a.m. at Edwards Air Force Base, California.

**DISCOVERY...**The Space Shuttle *Discovery* is undergoing final preparations for its Department of Defense mission, Monday, the STS-39 payloads were installed into the payload bay and payload to orbiter interface verification tests are underway. Work scheduled includes main engine flight readiness test today, start aft closeouts later this week and the flight readiness review on April 15-16.

*Discovery* is now targeted for an April 25 liftoff on an unclassified

**COLUMBIA...**The Spacelab Life Sciences payload continues final preparations for its flight next month. Installation of the Spacelab tunnel has been completed and crew equipment interface test with flight crew this weekend. Mating of the external tank to the solid rocket boosters will occur next week.

*Columbia* is scheduled to be launched in May with the Spacelab Life Science 1 payload.

## 10% Discount with ERAU ID



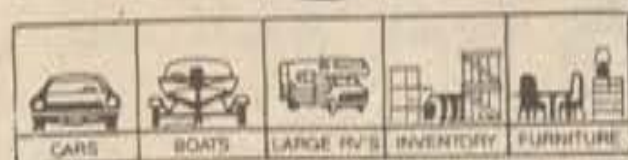
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1968 FORD BLUEBIRD SCHOOL BUS-5000 cheap must sell before graduation, you don't need a special license. Insurance is dirt cheap. It runs great but it can't stop. It needs a new brake line, that's all. Leave inquiry box 7702 or call Mike or Max 255-4677

1990 PLYMOUTH LASER-Champagne brown, great shape, low payments - low down. Call 423-7591 (New Smyrna) or Box E-110.

1981 AUDI 5000S-New paint, seats, tires, 95% restored. Needs minor touch-ups. Must sell, need tuition money. \$2750/OBO. Call Jeff @ 756-3298

1978 Monte Carlo-Runs well. Must sell before end of semester. Call 253-3433. \$700 OBO.

## Cycles for sale

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## Roommates

ROOM FOR RENT-share a 3 bedroom, 2 bath house. Pvt room available, unfurnished. \$185/month + 1A utilities. Plus 180 deposit. Call 239-6829 ask for Rhonda 8 a.m. - 5 p.m. or Box 4217

Roommate needed May 1st. Non-Smoker to share 2 bed/1 bath apt. Tennis, pool, laundry, only \$175.50/month + 1/2 electricity and sec. nego. Call now 248-0014.

Roommate wanted: 3 upperclassmen (1 guy [A/E], + 2 girls [A/E, ENGR PHYS]) looking for roommate to share 4 bedroom home 1.5 miles from ERAU. OPEN MAY 1ST. Includes wash, dry, VCR, TV, etc. Rent \$225/mo. + 1A utilities. Call Mike, Joan, or Stacy @ 254-4846 anytime.

EFFICIENCY APARTMENT FOR RENT-Furnished garage apartment in quiet South Daytona neighborhood off of Beville Rd, between Nova and Ridgewood. \$250/month, utilities included. Call 703-9587.

ROOM FOR RENT-1 room w/ full house privileges. \$250 month includes all utilities. \$200 deposit. No lease. 15-20 minutes from ERAU. Call 756-5760

Female Roommate desperately needed for summer, fall, and spring to share 2 bedroom/1 bath apt. Have your own bedroom in a spacious apartment only 10 minutes away from school. Pool and laundry room near apt. Rent is \$197.50 + 1/2 electric. Call Michelle at 258-6977

Roommate needed immediately 2 bedroom, 2 bath townhouse. Kitchen, furniture + appliances included. 2 pools and laundry facilities on premises. Very roomy apt. \$230/month + 1/2 utilities. Water paid for. Must see! Call Pat 254-0841

Newly decorated 2-3 bedroom apartments furnished or unfurnished for rent. \$390 to \$425/month Rent 254-4730

Need roommate for summer A + B. Choose one or both. Get your own big bedroom with bath. Optional, but included in price king size 1120 bed + furniture + pool table in living room. 30 seconds from swimming pool, tennis courts, W/D, 10 min from ERAU. All for just \$195 a month + 1/2 utilities, phone. Call Ron at 258-6708

Female roommate needed 2 bed/1-1/2 bath Townhouse \$225/month plus 1/2 utilities - great place - furnished except for 2nd bedroom. Call now - Lori 760-9818.

Pelican Bay-clean, secure, spacious \$375 includes everything 756-1916

## Misc. for sale

Windsurfing equipment: 9' 6" SeaTrend, 5.0 north, 7.5 kleeper sail, 2 piece aluminum mast, North and Nautix clamp on boom, harness lines, harness, fin, mastbase, all in good condition. \$800 Call Ed 788-1658 or Box 3012.

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Waterbed for sale. Queen size. Moving, must sell \$50 Mark 257-4321

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Kitchen table w/ bar stools excellent condition. Call for details: 767-9191 (leave message).

Radio controlled helicopter w/ many extra spare parts. Call 676-9192 (leave a message).

FOR SALE: motorcycle helmet \$20; tennis racket \$12; woman's scuba suit - lycra suit, fins, booties, mask + case & snorkel. Brand new \$120. Nancy 238-7928.

IBM 286 compatible 12 MHz, 1.44 Meg 3.5" & 1.2 Meg 5.25" drives, 1 Meg RAM Monochrome monitor. Comes with software. Need to see! Asking \$700. Call 239-9847

Marantz Stereo for sale: dual tape deck, CD player, tuner & Amp, phono & two speakers. Still have boxes and receipt. Grabbing. Must sell! \$899 Call 239-8640.

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TRIKINA 70-210mm LENS-Made to fit Nikon. \$100 Rent 254-7565

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FOR SALE: One tired, used wife; a two year old child, clean; one six year old child, sticky (comes with Jolly Ranchers attached); a fifteen year old kid wearing a preppy load shirt; my dog (but only if you plead and beg because he's actually pretty cool and belongs to the neighbor). Health fully insured for one year. No special license necessary. \$12,002.37 for all. Need tuition money. Reply to Box 7455.

## Personals

TO THE CUTE GIRL WITH THE WEIGHT BELT AND BLUE SHORTS IN THE GYM ON MONDAY. You have beautiful form. I think we should get some mutual exercise at the Coliseum next week. Interested? Come to the Avian office! J.S.

Gods creation or not... I'm taking my shotgun to the keys and I'm going to blast every Portuguese man 'o war to pieces. By the way, I did not sound like a stuck pig... A stuck pig could never get that loud! A HUMBLED MARINE

BAHS You're the greatest Big Sis! Thanks for everything! ALWAYS M

P.S. We need another "IIM" night!

DAGGER 4-3, shall we finish it? PINCUSHION

RED Just for your information, the birthday offer I made is still open. H&S INC.

FENCER #2 Teaching is not an excuse THE HORDI!

CRIS Good job on your oral! Like you! MO!

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## AD

Wy' - Eld Wenz-Dae!

The Drink, The Myth

## THE LEGEND

According to legend a witch doctor called Wenz-Dae saved the Wy'-Eld tribe from certain extinction many years ago by concocting a secret potion. It seems the people of the Wy'-Eld tribe were just plain bored, boring and uninteresting... and on top of that they they couldn't dance. This potion, legend states, was so inspiring that soon the better part of the dark continent was dancing to the boogie beat of the Wy'-Eld ones. As a matter of fact, partaking of this potion became part of the Wy'-Eld rite of manhood and was known as the ritual of Wy'-Eld Wenz-Dae. Unfortunately, Wenz-Dae took the recipe with him when he went and it remained locked in his tomb for 6,000 years. Then in 1944, Professor D.S. Tillery uncovered the tomb and immediately set about mixing up a fresh batch of the potion... a pinch of sweet rhino horn, a dash of cola nuts, secret distilled grains and the mystic Wy'-Eld incantation "Git Dow'n Witcho Bad Se'f." Inspired by the mixture, the aged and balding D.S. Tillery immediately spouted a full head of hair and was endowed the stamina and sex appeal of a 20 year old decathlete. He was last seen bounding off into the jungle with a bevy of native maidens in hot pursuit, and to this day in memory of Professor D.S. Tillery, Jungle Jims Still Practices this ancient ritual for their patrons who want to Git Dow'n every Wenz-Dae.

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