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Aeronautica

B

Volume 64, Issue 5

February 21, 1990

Flying Tigers brings old warbirds back to life

by Ron Young
Aeronautica Writer

The Flying Tigers Warbird Air Museum, also known as BomberTown USA, is home to one of the nation's finest Warbird restoration facilities. The museum combines displays that involve aircraft both under reconstruction and in completely flyable condition. Military memorabilia, artifacts and other nostalgic items are also available for viewing.

Over 30,000 people viewed the collection last year and a record number is expected this year.

The museum's owner, Tom Reilly, became involved in rescuing old ex-military aircraft as a part-time venture in the early seventies. His first project was that of a North American B-25 Mitchell. With the wealth of experience and knowledge gained from this restoration, Reilly has since completed rebuilding a total of seven of the vintage medium bombers. Three additional B-25's await their turn.

Reilly's restorations have a reputation of being among the finest and most authentic in the world. This is mostly due to the large, well experienced crews of sheet-metal specialists, mechanics and other key members.

These individuals take great pride in their work and put much effort into restoring the

projects as close to original working order as resources permit.

It is not uncommon for an aircraft to be completely restored without the benefit of using factory supplied blueprints or technical working manuals. For many projects they simply don't exist.

Attention to details and non-stop working hours are also trademarks of the Flying Tiger's many restorations. One of the most recent completions, a Consolidated B-24J Liberator, is the only fully restored flying B-24 left in the world. It contains radios, bombsight and all gun turrets previously found on the original.

Some 97,000 working man hours were required to place this aircraft back into its current military configuration. Work is done at a lightning pace with crews laboring seven days a week, year round in an effort to maximize aircraft completions.

Currently, many other aircraft are undergoing restoration. An ex-Honduran Air Force Chance Vought F4U-5 Corsair is now in the process of being rebuilt after colliding with a group of trees in Central America. This aircraft is progressing nicely and should be completed in approximately one year.

An ex-Navy Douglas TA-4J Skyhawk is



Photo by Ron Young

Bush pilot...
A Grumman TBM Avenger torpedo bomber similar to the museum's flying example was flown by President George Bush during World War Two. The Avenger was the US Navy's largest airplane to operate off a carrier during the WWII.

also under reconstruction. While in the Navy, the Skyhawk had the misfortune of suffering a nose gear failure upon landing. Severe damage was incurred which has required museum crews to completely rebuild the trainer's front section. Completion of the aircraft should occur within one and a half years, giving it the distinction of being the first two seat Skyhawk in civilian hands.

Additional aircraft receiving attention includes two more B-25 bombers, a Grumman TBM Avenger and a pair of North American T-6 Texan wings which are currently undergoing modifications for competitive air racing.

All are proceeding rapidly and with the exception of the TBM, should be completed by this summer.

Reilly's future plans include many more Warbird restorations. In fact, work is so plentiful that no more projects are being accepted.

Some of the aircraft awaiting their turn at

becoming rebuilt include: a rare North American P-51A, A Curtiss P-40 Warhawk, three additional North American B-25s, a Boeing B-17 Flying Fortress and three more TBM Avengers.

Displays at Flying Tigers involve more than just projects under restoration. Several completed aircraft are arranged both inside the museum's hangar and on the adjacent outside ramp.

These range from the tiny homebuilt Pitts Special to the mammoth Fairchild C-119 Flying Boxcar. These aircraft are all kept in flyable condition and are regularly flown year round, but on no set schedule.

This collection is very well maintained and provides a good overall cross section of aviation to the general public.

The museum also features an extensive collection of aircraft in the process of either waiting to be restored or to be used as parts for future projects. These can be viewed and enjoyed for their historical value. Many of these aircraft have actually been involved in combat situations.

The museum's display aircraft can also be seen at local airshows and fly-ins. The air museum hosts their own annual show each year and attracts numerous participants from around the country.

The Flying Tigers Warbird Air Museum is located on the Klamath Airport one mile south of state road 192 on Airport/Hoagland Boulevard. The hours are from 9 am to 5 pm, seven days a week. An small admission charge of \$5.00 for adults and \$4.00 for kids is required.

Flying Tigers Warbird Air Museum Features

- Aeronca C-3
- Chance Vought F4U-5
- Consolidated B-24J
- Curtiss P-40E
- DeHavilland Tigermoth
- Douglas A-4 Skyhawk
- Fairchild C-119
- Fairchild KR-21
- Funk
- Grumman "Goose"
- Grumman TBM
- Hawker Sea Fury
- Kreider Reisner KR-34
- North American P-51
- North American B-25
- North American T-28
- North American SNJ-5
- Piper PA-11
- Piper J-3
- Pitts Special
- Porterfield
- Ryan PT-22
- OX-5 Bird
- Stinson JRS-8 Junior
- Taylor Young
- Consolidated PBY-2



Photo by Ron Young

Navy wings...

The T-28 Trojan was North American Aviation's replacement for the AT-6 Texan. The aircraft served the Air Force and the Navy faithfully then moved on to foreign service. This particular aircraft is in the markings of the US Navy's VT-6 training squadron.

NASA tests new STOVL aircraft in large wind tunnel at Ames complex

by Brett E. Messimer
Aeronautica Editor

The E-7A short take off vertical landing aircraft is currently undergoing full-scale wind tunnel testing at NASA-Ames' low-speed wind tunnel.

The E-7A is the first full-scale aircraft tested in the new 80X120 foot section of the tunnel. The E-7A is the corner stone aircraft for a fleet of proposed aircraft all using the ejector method of thrust vectoring.

The ejector system consists of many small nozzles placed aft of the cockpit on both sides of the fuselage and uses cool fan air to produce lift for hovering.

The Rolls-Royce Spey 801, which produces 10,500 pounds of thrust, ejects the hot core air out a ventral nozzle positioned further aft. This nozzle can be placed in four different positions depending upon flight requirements.

The E-7A completed 16 weeks of testing in the large tunnel. During this time, the Spey 801 was successfully test run. During testing, the ejector system was tested for thrust loss. While the test produced numbers

lower than expected, they were still within acceptable parameters.

The aircraft will eventually be moving to an outside test facility for hover testing. This testing will explore the loss of lift in the vertical area to determine if the loss was caused by the walls of the wind tunnel.

While in the large wind tunnel, the boundary layer control system and the aerodynamic anomalies of the propulsion system were tested.

Although ejector systems have been tested before, none have been tested on a full-scale aircraft. Other systems were tested in smaller scales and were deemed not acceptable.

The E-7A's 32 foot 4.8 inch delta wing has full span flaperons and wingtip missile rails. The single seat airplane is 49 feet 5.0 inches long overall and is 17 feet tall.

Designed by General Dynamics, the E-7A was built at NASA-Ames and was built by de Havilland Canada and NASA and was commissioned in 1986 jointly by NASA/DARPA and the Canadian Department of Industry, Science and Technology.

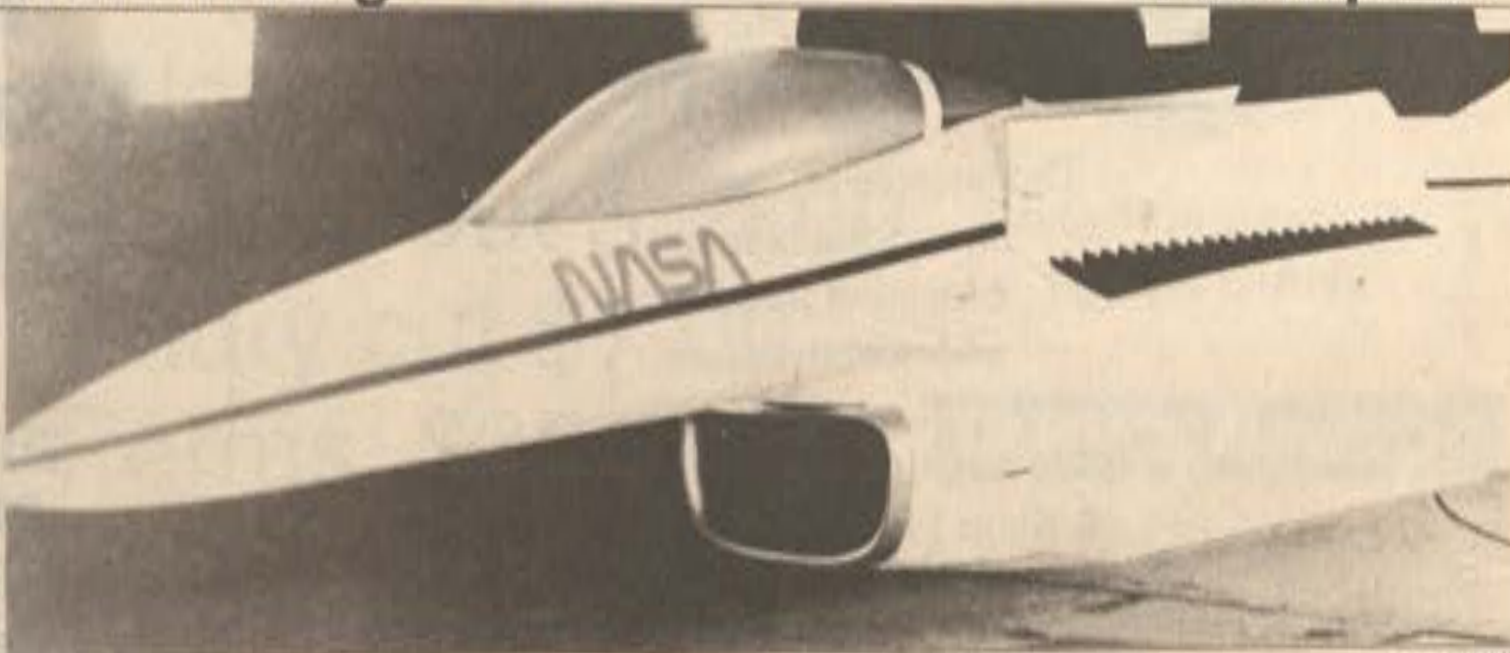


Photo courtesy of NASA

Plane on stilts...
The E-7A is the predecessor to an entire family of short take-off/vertical landing (STOVL) aircraft if the aircraft performs as it should. Hover testing will take place at an outside facility at NASA-Ames at a later date.

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Progress continues on Endeavour

Rockwell is assembling NASA's fifth Space Shuttle for delivery in 1991

by Derrick Seys
Space Technology Editor

As the National Aeronautics and Space Administration embarks on an ambitious launch schedule, construction of the Space Shuttle Endeavour is progressing at the Rockwell International facility in Palmdale, Calif. Endeavour, bearing a name picked by aspiring American school children, will supplement and expand NASA's current shuttle capabilities.

At the Rockwell facility, many of the primary and secondary assemblies have been mated. Currently joined are

the mid-fuselage, wings, lower forward fuselage and aft fuselage. The Thermal Protection System, which shields the frail orbiter from the heat of re-entry, is approximately 59 percent complete.

"We are currently ahead of schedule and are happy with the progress" said Don Buis of Rockwell.

The crew module is to be received from the Rockwell plant in Downey, Calif. When received, it will be mated to the current assembly next month. March will also be the time for the mating of the forward fuselage.

Included in the new orbiter are some of the new technologies, modifications, and upgrades that have been added to the fleet over the past several years.

Endeavour, essentially identical to Atlantis and Discovery, will have two temporary distinctions.

A drag chute will be installed to ease the loading encountered during landing and design accommodation for the Extended Duration Orbiter (EDO).

The EDO kit will be installed to allow the orbiter to remain on-orbit

for up to 28 days, benefiting missions dedicated to the sciences and Space Station Freedom construction.

The EDO kit is being designed and tested by Rockwell and will reduce the number of missions required to perform a given task as well as save vehicle wear.

The longer stays will be achieved through enhancement of Shuttle power systems, crew cabin, equipment storage, and environmental control system. All of these are contained in the EDO modification kit.

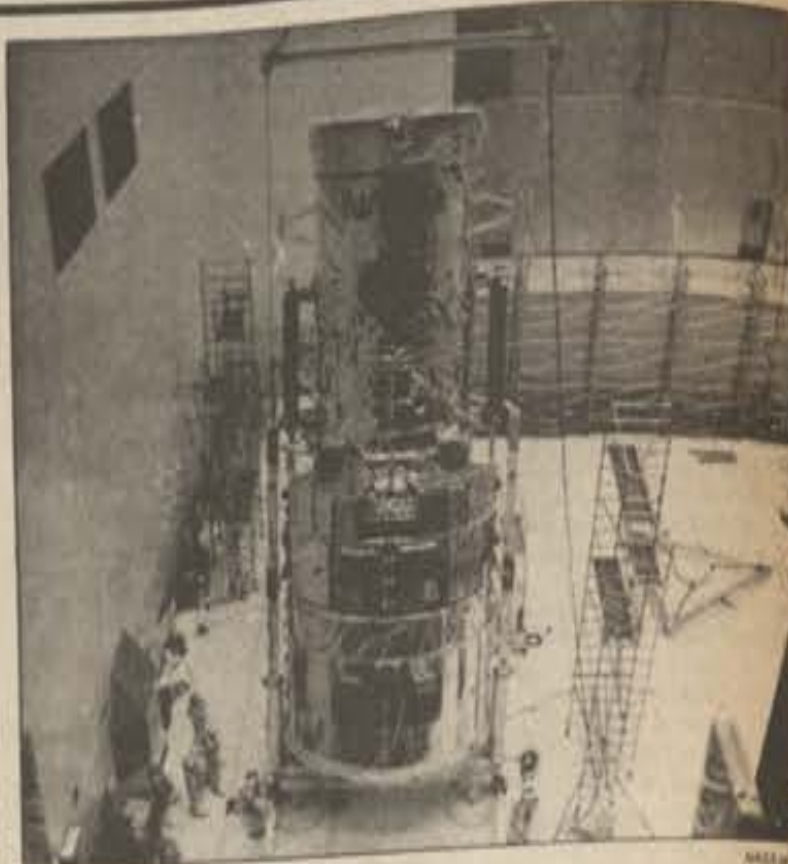
The EDO kit and drag chute will be incorporated into the rest of the Shuttle fleet as time permits.

Currently, major milestones will take place in October of this year and the early part of next year.

In October, the complete mating of all structural components will be completed with the exception of the Orbital Maneuvering System pods (OMS). Then in February 1991, the final acceptance tests will be completed and the shipment of the orbiter to KSC will follow.

At KSC, the OMS pods will be installed and further flight verification will be done. Ten months after its arrival in Florida, Endeavour will make its maiden voyage on STS-52 in February 1992.

Construction of Endeavour was approved August 1, 1987 and will restore NASA's fleet of orbiters to the original number contracted by the agency in 1972. The actual hardware used in Endeavour began construction in 1983 when Rockwell was contracted to supply NASA with spare structural components. Using these parts has saved approximately two years of production time.



Eye in the sky...

The Hubble Space Telescope is going through extensive pre-launch checks at the Kennedy Space Center in preparation for its April launch.

Hubble going through checks at KSC

by the National Aeronautics and Space Administration

Pre-launch testing of the Hubble Space Telescope in the Vertical Processing Facility at KSC continues to go smoothly and on schedule.

Functional testing of the HST science instruments is nearing completion and is scheduled to be finished about 4:00 a.m. on Saturday, Feb. 17. The Telescope will be powered up again from time to time to re-verify test data, to meet a requirement to apply power periodically to the Faint Object Camera, and later to test the flight batteries after their installation.

Three days of launch pad confidence testing was held on Feb. 5-7 with a final test on Feb. 13. This exercise verified the health of the HST using its associated test equipment at Pad A.

A concluding end-to-end communications test was run on Saturday, Feb. 10. This test was conducted by using TDRS East to interconnect the

payload interfaces of Discovery in its hanger, the Hubble Space Telescope in the Vertical Processing Facility, and the Space Telescope Operations Control Center at the Goddard Space Flight Center.

HST closeout operations began on Feb. 15. This work includes removal of nonflight items, closeout of the solar arrays, configuration of the high gain antenna in preparation for installation into the payload canister, installation of the flight batteries, and a final cleaning of the telescope.

As HST processing schedule to ready the telescope for launch by April 12 has been developed. If this schedule is adopted, the flight batteries will be installed within the telescope on Mar. 16, HST installation into the payload canister will occur Mar. 23, the move to the launch pad will be on Mar. 26, and installation of the telescope into the payload bay of Discovery will occur on Mar. 29.



Progress... The American flag is stenciled on Endeavour's thermal blankets signifying the progress being made in installing the orbiter's Thermal Protection System.

Writers Wanted

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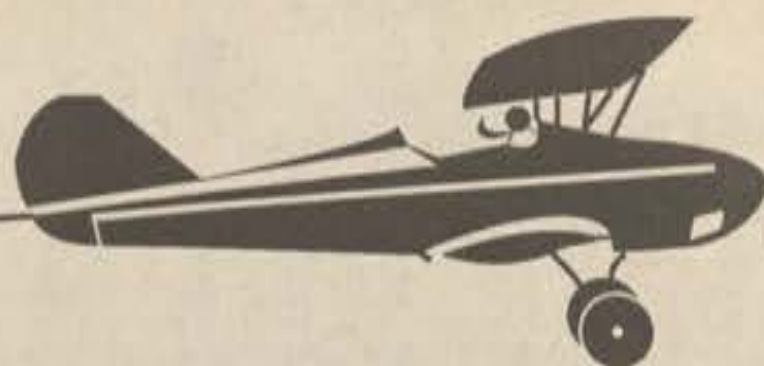
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Observatory moves closer to space

by Jose L. Vazquez-Delgado
Space Technology Writer

On February 5, the first spacecraft containing advanced, sophisticated instruments dedicated to the study of gamma rays, began its journey into space. The TRW-built Gamma Ray Observatory (GRO) was flown from California to Cape Canaveral aboard an Air Force C-5A cargo plane.

The GRO will be a space-based observatory which will enable scientists to study and better understand what they can not see, the invisible universe. The invisible universe is formed by energy known as gamma rays which are emitted during some of the most basic, yet violent, processes in the universe. Through the eyes of the GRO, scientists may be able to witness birth of stars as well as their death and find clues about the mysterious quasars, pulsars, and black holes.

The observatory is unique in several ways. It is the heaviest unmanned NASA spacecraft ever launched, it is the first spacecraft completely designed through use of computer-aided design and manufacturing, it is the first science payload with propulsion system that is refuelable on orbit, and it's payload will view the universe at the highest level of electromagnetic radiation.

Gamma rays can not be viewed through the Earth's atmosphere and are in fact very difficult to measure. That's why the GRO was constructed using very sophisticated instrumentation.

The GRO will weigh more than 17 tons. The reason for the large spacecraft size is the instruments. These will study gamma ray sources 10 to 50 times fainter than those previously observed, expanding the volume of the invisible universe up to 300 times.

Three of the instruments alone are the size of a subcompact car. The size of these result from the detection methods of the gamma rays, the number of gamma-ray events recorded by an instrument is directly related to the mass of the detector. Also, since gamma rays are sparse and highly energetic, the use of large instruments to trap them in a reasonable amount of time is required.

The GRO will be launched aboard the Shuttle and put in a circular orbit at an altitude of 279 miles, inclined 28.5 degrees to the equator. The spacecraft will scan specific regions of the sky for two-week periods. At the end of its initial two-year mission, the GRO will have observed the entire celestial sky.

Following the basic mission, the GRO may continue to function for eight years or longer. Extended operation of the observatory would allow more detailed studies of gamma rays in particular regions.

The TRW Space and Technology group built this spacecraft under a \$250 million contract awarded by NASA's Goddard Space Flight Center in 1983. To reduce



Checking it out...

Technicians check out the Gamma Ray Observatory prior to shipment to the Kennedy Space Center.

costs, save assembly and test time, and to provide a tool for engineering design verification, a full scale mockup of the GRO was built. Besides being used for assembly and test training, it was immersed in water at the NASA's Weightless Environmental Test Facility in Houston. This allowed the astronauts to practice on-orbit maintenance procedures, and give feedback on the design. The feedback was incorporated into the final design features for maintenance, repairs, and refueling of the GRO.

The Gamma Ray Observatory is one of four observatories that NASA is developing for the 1990s in order to extend mankind's knowledge of astronomy and basic cosmological processes.

The other three observatories are the Advanced X-Ray Astrophysical Facility, the Space Infrared Telescope Facility, and the Hubble Space Telescope. From all these telescopes, only the Hubble Space Telescope will study visible light traditionally associated with astronomy.

By being tuned to these different segments of the light spectrum, these four observatories will reveal a complete picture of the universe, visible and invisible, just as the receptors in our eyes respond to the different wavelengths of colored light to form a polychromatic picture of the visible world.

Viewing tonight's Shuttle launch

by Derrick Seys
Space Technology Editor

Tonight's lift off of *Atlantis* into Florida's night skies can be greatly enhanced with proper preparation.

Tonight, the launch window will open at midnight and close at 4:00 a.m.. If all goes as planned, ignition will occur at approximately 1:30, according to sources. The public will be informed of the actual count when the clock is at T-9 minutes and counting due to the defense payload stowed in *Atlantis*' payload bay.

To assist those wishing to view the spectacular event, a few helpful hints will make the occurrence more enjoyable.

The closest viewing open to the public is the beaches of Brevard County. Titusville provides a vantage point that is easily accessible from north Florida and is approximately 7 miles west of the pad. Parking along U.S. 1 can be done without trouble.

For those wishing to make the trip, Jetty Park in Cape Canaveral can provide an excellent viewing spot; however, the estimated launch



Uncovered...

Lift off of *Discovery* and its secret payload was made public as they climbed into the night skies last year. *Atlantis* is scheduled to make a fiery ascent into space tonight.

inclination will carry the Space Shuttle up the east coast. Access to the park is achieved by exiting from I-95 at the 528 east exit and small tolls exist.

Ponce inlet offers something most of the other viewing locations do not, close proximity. The drive down A1A to the inlet is a short trip from Daytona and should be below the ground track at ascent.

Regardless of the viewing

location chosen, a few necessities will make sure the brilliant launch will not be missed. A small radio will allow the viewer to become aware of the moment when the clock is at T-9 minutes, a pair of binoculars will bring the action closer to the viewer and a camera will capture the moment.

Weather may pose a problem with lift off. Predicted conditions are for a 70 percent violation.



How Big...

The Space Shuttle *Atlantis* is shown next to NASA's 747 Shuttle Carrier Aircraft. An orbiter weighs approximately 200,000 pounds empty. Although it acts like a glider during re-entry, the three Space Shuttle Main Engines combine for over one million pounds of thrust at lift off, five times more than the 747 engines.

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Spectrum Holobyte's Falcon puts Riddle students in F-16

by Jason Simon
Data-Tech Editor

He sits at the end of runway 27 left, his heavily loaded F-16 fighter is waiting his first command. At the touch of a button he fires up his Pratt and Whitney F100-pw-200 turbofan to maximum thrust. The whine of the engine is soon replaced by the explosive sound of the afterburner coming to life. The massive bird begins its acceleration down the runway, ready to destroy all that comes in its path. If this sounds exciting then F-16 Falcon, with the new mission disk, is the smart choice for a realistic combat simulator.

F-16 Falcon, with Operation Counterstrike mission disk, is the creation of Spectrum Holobyte, a leader in simulation software. The concept of this game is simple, use an F-16 Falcon to eliminate the hostile forces that have amassed in the areas surrounding the game's homebase. However the game is far from simple.

Getting Started
After passing through the lengthy startup of the game the user is greeted by a screen that displays a duty roster, attached to a clipboard, on a desk strewn with pictures of girlfriends and fighting buddies. The user is to pick one of the names listed on the roster to be his "pilot", or he can add his own name to the duty roster list.

After passing through the duty roster the user encounters the mission screen. On this screen are the twelve missions that can be selected along with the rank that the user wishes to fly at. The user can select 1st Lieutenant, which is a piece of cake, all the way up to full bird Colonel where the MIG29s and surface to air missiles are the most accurate.

Arm that bird
After selecting the mission and the rank the user comes to the armament screen. Here the user can select which weapons he or she wants to carry in the mission. The selection includes Aim-9L and Aim-9J air to air missiles, AGM-65B "Maverick" air to ground missiles, MK 84 2000 pound bombs, Durandal anti-runway bombs, ALQ Electronic Countermeasures (ECM) pod and a 300 gallon external tank. Each weapon carries a weight and the pilot must be careful how much weaponry to carry, because the more the plane weighs the less well it performs in battle.

In the pilot's seat
After passing this screen the pilot enters the F-16 cockpit. Out of all the combat simulators out, this cockpit is the most realistic. Included are a heads up display for altitude, airspeed and missile lock, simulated monochrome heads down display for targeting and magnified views, radar screen, weapons display and warning systems.

One nice feature is the digitized warning voices included by the manufacturers. The simulator has female voices that say "caution" if the pilot is exceeding certain limitations of the plane, like leaving the landing gear extended while doing over 300 knots. If the user is flying the plane into the ground the computer may choose to warn the pilot to "PULL UP" depending on how fast the decent rate is. Finally if the plane is shot down or if the pilot does

something stupid, like extending the gear past 400 knots and ripping them off, the computer will repeat the word "WARNING" until either the pilot bails out or crashes and burns.

Missions Available
The first mission is entitled "Rolling Thunder". The objective is to destroy the three T-80 tanks that are fighting their way to your homebase. The best piece of equipment to take is the maverick missile because it is easy to target.

Mission number two is "Water Sports". The only way enemy tanks can be delivered is by landing craft which patrol the lake in front of your base. The best way to get rid of the tanks is by getting rid of the landing craft before they reach shore. You can bomb the craft or use the 20 millimeter cannon on board your F-16.

Truck interdiction is the next mission. The pilot now goes on the defensive by trying to cut off enemy supplies by destroying supplies en-route. Cannons and bombs do the most damage, but the pilot must beware of the many surface to air missile (SAM) sites that line the truck route.

Mission four is "Train Interdiction" where the pilot must destroy a train en-route. This train has a special feature, if you take out the engine the train will still move under its own power. The pilot must destroy the entire train to complete the mission.

"Wild Weasel" is by far one of the harder missions on the disk. The goal is to destroy at least four SAM sites and return to base. The tricky part is destroying the site before it launches a missile "where the sun doesn't shine". An ECM pod is a must on this mission.

"Serpents Jaw" is next on the list. The objective is to take out the land bridge that the trucks use to deliver supplies. It takes the enemy more time to build a bridge than to build a truck so why not stop the flow of supplies in a more permanent fashion.

"Serpent's tail" is similar to "Serpent's Jaw" except that the train bridge is much tougher to destroy. The pilot must take along at least two 2000 pound bombs along with another pod of fuel, which weighs more than 2300 pounds. This will put the F-16 into "CAT 3". This means that the fighter cannot fly inverted at all and limits the maneuvers that can be done in a dogfight. If the plane ends up inverted it will end up spinning into the ground at a very high velocity, bail out if time permits.

"POL Mission" is one of the riskiest missions. POL stands for Petroleum Oil and Lubricants and the objective is to destroy the three fuel tanks at the oil refinery. The reason this is so risky is because the refinery is very far away from home base and the plane must hold on a few extra fuel tanks. Plus the best route is over tons of SAM sites.

Mission nine is "Wasp's Nest". The idea is to destroy the enemy's main airport with the Durandal bomb. But the



Flying High...
Spectrum Holobyte's F-16 Falcon, with Operation Counterstrike mission disk, proves to be one of the best combat simulators ever put out into the personal computer market. New enhancements added to the mission disk give the user a better "feel" of the cockpit controls while adding MIG-29s to the scenario.

The mission has two parts, if the fighter sees a reconnaissance drone he must also shoot it out of the sky.

The "Sledgelammer" mission is a major victory for the home boys if it is successful. The tank factory is producing too many tanks and the objective is to level the factory. Use the Maverick to destroy the factory but beware, a hit on the factory may not level it.

"Thunderbolt" is a vital mission. The power station is the only way the enemy gets power. Grab a couple Mavericks and a fuel pod or two and get ready for a fight. The station is deep in enemy territory and is well guarded by SAM sites and MIGs. The use of wits is the only way to get to the objective. Expect to be shot down a couple of times before the target is finally nailed.

The final mission is "Flaming Dart". It is easier than many of the other missions but it is still a challenge, the objective is to destroy the weapons arsenal due north of home base. The target is very compact, so the best choice is once again the Maverick missile. Go in fast, nail the target and leave faster.

Mission Dependency
One of the best features of this game is the fact that each mission is dependent on the other missions. That means that even if the pilot destroys the tanks that menaced the home base in the first mission they will return to haunt the pilot in later missions. For instance if the pilot levels the

train bridge in one mission it will be rebuilt to supply the ground forces later on in the game.

Medals for bravery, too
The user can also receive medals for bravery in this game. The medals range from the Purple Heart, if the pilot is hurt while in action, to the Distinguished Flying Cross, Silver Star, Air Force Cross and the Congressional Medal of Honor.

Major Enhancements
The mission disk included some nice enhancements that make the game more realistic. The landing parameters have been widened so that the pilot can land anywhere on the runway instead of just on the centerline, like in the original version. Also the pilot can even land a damaged plane now. The airbase is now protected by SAM sites so the user won't have to worry about fighting off the MIGs while shooting the ILS on runway 27 left. The flight control program has been re-written to allow much better control of the plane in flight plus the plane will now automatically level off after a minor banking maneuver (however this can be turned on and off at pilot's discretion). To balance out all the improvements to the F-16 the programmers upgraded the MIG-21 to MIG-29 to make the game much harder.

Overall Spectrum Holobyte's new Falcon is the best combat simulator on the market. It was reviewed on an Amiga 500 with one megabyte of ram and in four channel stereo sound. F-16 Falcon, Operation Counterstrike is also available for IBM and other systems.

If the user is flying the plane into the ground the computer may choose to warn the pilot to "PULL UP" depending on how fast the decent rate is.

One of the best features of this game is the fact that each mission is dependent on the other missions.

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<p>MICHELIN® XH</p> <p>Whitewalls UTQG Rating 300 AB</p> <table border="1"> <tr><td>P175R14</td><td>\$2.99</td></tr> <tr><td>P185R14</td><td>\$3.99</td></tr> <tr><td>P195R14</td><td>\$4.99</td></tr> <tr><td>P205R14</td><td>\$5.99</td></tr> <tr><td>P215R14</td><td>\$6.99</td></tr> <tr><td>P225R14</td><td>\$7.99</td></tr> <tr><td>P235R14</td><td>\$8.99</td></tr> </table>	P175R14	\$2.99	P185R14	\$3.99	P195R14	\$4.99	P205R14	\$5.99	P215R14	\$6.99	P225R14	\$7.99	P235R14	\$8.99	<p>STEEL RADIAL METRIC BLACKWALLS</p> <p>\$17.99</p> <p>145-13</p> <table border="1"> <tr><td>165-13</td><td>16.99</td><td>175-13</td><td>23.99</td></tr> <tr><td>185-13</td><td>19.99</td><td>195-13</td><td>25.99</td></tr> <tr><td>195-14</td><td>21.99</td><td>205-14</td><td>26.99</td></tr> <tr><td>205-15</td><td>23.99</td><td></td><td></td></tr> </table>	165-13	16.99	175-13	23.99	185-13	19.99	195-13	25.99	195-14	21.99	205-14	26.99	205-15	23.99			<p>FIRESTONE "CALIENTE" METRIC BLACKWALLS</p> <p>\$25.99</p> <p>175-13</p> <table border="1"> <tr><td>165-13</td><td>20.99</td><td>175-13</td><td>24.99</td></tr> <tr><td>185-13</td><td>23.99</td><td>195-13</td><td>26.99</td></tr> <tr><td>195-14</td><td>25.99</td><td>205-14</td><td>28.99</td></tr> <tr><td>205-15</td><td>27.99</td><td>215-15</td><td>29.99</td></tr> </table>	165-13	20.99	175-13	24.99	185-13	23.99	195-13	26.99	195-14	25.99	205-14	28.99	205-15	27.99	215-15	29.99	<p>NO CARRS OUT, NO DEALERS BARGAINING REQUIRED, ANY DAY LOW SALE PRICE TAKE INTO CONSIDERATION BUY 2 GET 1 FREE AT SUGGESTED MANUFACTURER'S SELLING PRICE</p>																						
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<p>BEACHSIDE 140 Main Street AT HALIFAX 255-3581 7:30-6 PM</p>		<p>ORMOND BEACH 300 W. GRANADA NEAR 20th St. At 1st St. 677-5134 8:30-5:30</p>		<p>WESTSIDE 1010 VOLUSIA AVE. AT NOVA RD. DAYTONA BEACH 394-1206 7:30-5:30</p>																																																																			

Not Just Yogurt

Sandwich Special
Your Choice of Chicken Salad, Tuna Salad, Egg Salad, Turkey or Grilled Cheese Sandwich plus-

Chips
Pickle
Beverage
Small Yogurt

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Beville Road and Clyde Morris, Daytona Beach

Calvin and Hobbes

by Bill Waterson

Far Side

by Gary Larson



Notices

Counseling Center Programs Spring 1990

Experience+Plus!

We are looking for "non-traditional" students who are interested in getting with other such students to join our group called "Experience +" here at ERAU. A "non-traditional" student is defined as someone who initially entered college after a break of four years or more from academic studies. The purpose of this group is to form a supportive social network as well as to discuss issues that effect the non-traditional student. The group will meet for monthly luncheons.

If you are interested, please contact Lynne Norris or Patty Ruddy in the Counseling Center, 239-6035 for further information

Self Hypnosis for a "Change"

Learn how to use self hypnotic techniques to build your ego, improve study habits, eliminate negative habits, solve problems, develop positive habits, explore your inner self and much more... The self hypnosis group will meet for five two hour sessions during the weeks of February 26 - March 26, 1990. The group size is limited. Interested persons need to make an appointment, to discuss the group, in the Counseling Center, during the week of February 19 - February 23, 1990.

Sexual Harrassment Awareness Week

Monday, February 26, 1990 from 11 am to 1 pm, in the Student Center cafeteria, an information table displaying brochures and literature on sexual harrassment.

Tuesday, February 27 at 8 pm in Dorm I lobby, the Sxually Harrassment Panel, consisting of faculty, staff and student members of the Sexual Harrassment Committee will be available to address questions pertaining to Embry-Riddle's Sexual Harrassment Policy and Procedures. All are welcome.

Wednesday, February 28 at 7:30 pm in G-109/112, Dr. Dan Kelly and Nancy Parker sensitize female students to Embry-Riddle's Sexual Harrassment Policy and Procedures.

Thursday, March 1 from 1:30 pm to 2:30 pm in A-109, the Sexual Harrassment Awareness Panel will be available to address questions pertaining to Embry-Riddle's Sexual Harrassment Policy and Procedures. Again, all are welcome.

February is Heart Month

If we can generate interest in Halifax Medical Center's coronary risk appraisal, Heart Chec, it will be offered on campus in the near future. The low cost (\$16) program offers blood tests for total and HDL cholesterol, blood fats and blood sugar, height-weight analysis, blood pressure check and a helth-lifestyle history for risk analysis. Test data are entered into a computer that develops a personal coronary risk profile, calculates the probability of developing heart diseaso and makes recommendations for risk reduction. A personal, confidential evaluation of the test results is mailed to each participant.

Interested students should contact Kym Olson, Health Services secretary, at ext. 6306. Be your own best Valentine and take a proactive approach to protecting your heart's health!

Campus interview schedule

Northrop, Hawthorne, CA	Feb. 21
EDS, Atlanta, GA	Feb. 27
Naval Aviation Depot, San Diego, CA	Mar. 5,6

Aerobics

Aerobic sessions will be held in the conference room in the Student Center, across from the information desk.

Schedule:

February 21	8 pm to 9 pm
February 22	8 pm to 9 pm
February 23	7 pm to 8 pm

For more information contact Dionna at 252-7128 or Hellenia at 252-3013.

New parking policy

Effective immediately, all ERAU student vehicles will be towed from the Health Center parking lot near the AWS. There will be no prior warning for these violations.

Free Information

The Center has books and cassette tapes that can be checked out plus many free handouts and brochures. The materials deal with numerous subjects such as stress reduction and relaxation, study skills, depression, grief, sexuality and relationships. The Counseling Center also has a biofeedback machine for stress reduction and video tapes that can be viewed in their Resource Room. The Counseling Center, located on the first floor of the Student Center is open from 8:00 am to 5:00 pm, Monday through Friday.

Degree completion and commencement

According to University Academic Policies and Procedures, every student must make formal applications with the Registration and Records Office for degree completion. Due to the fact that there are now two commencement ceremonies per year, new procedures have been devised. Formal application for degree completion may be made with the Registration and Records Office. A second form designates which commencement ceremony the student will attend, information for ordering cap and gown and information for commencement program. Both forms must be completed and submitted to the R & R Office no later than the application deadline published in the University calender and the AVION "Notice" section.

Forms are now being accepted for April '90 and August '90 degree completion. If you are requesting April ceremony attendance, there is a separate form to fill out. Any Summer '90 degree completion people desiring Fall '90 ceremony attendance should so notate it on this form. If you do not wish to attend either ceremony, only fill out the "Degree Completion" form. Forms will be left with the R & R Office and checked for eligibility. If you are found ineligible for degree completion or ceremony attendance, you will be asked to re-apply at a later date.

Applications received after the published deadline may cause the prospective graduate to relinquish privileges for participation in commencement exercises, publication of student information in the program, eligibility for Chancellor's award and announcement of graduation honors. Diplomas will not be available after the ceremony for "late" applicants.

Anyone who has already applied to the R & R Office for April '90 degree completion (and ceremony attendance) and received a preliminary evaluation need not re-apply.

Please be aware of your responsibility for reapplication in order that your degree completion may be a smooth one. February 23, 1990 is the last day to submit applications.

FAA pilot written examination schedules

Embry-Riddle Aeronautical University will administer FAA Pilot and/or Instructor Written Examinations for the following:

	Max. No. of Questions/Times Allowed
1. (PA) Private Pilot - Airplane	50/6 hrs.
2. (CA) Commercial Pilot - Airplane	100/5 hrs.
3. (FIA) Flight Instructor - Airplane	100/6 hrs.
4. (FOI) Fundamentals of Instructing	50/4 hrs.
5. (BGE) Ground Instructor - Basic	100/6 hrs.
6. (AGI) Ground Instructor - Advanced	100/6 hrs.
7. (ATP 121) Airline Transport Pilot - Airplane	100/6 hrs.
8. (AD) Aircraft Dispatcher	100/6 hrs.
9. (ATA 135) Airline Transport Pilot - Airplane	100/6 hrs.
10. (IRA) Instrument Rating - Airplane	60/6 hrs.
11. (FII) Flight Instructor - Instrument-Airplane	50/6 hrs.
12. (IGI) Ground Instructor - Instrument	50/6 hrs.
13. (FEB) Flight Engineer - Basic	50/6 hrs.
14. (FEJ) Flight Engineer - Turbojet	50/6hrs.

Date	Time	Place
Feb. 10	Sat., 0900	G-109, GRW Complex
Feb. 14, 21, 28	Wed., 1300	G-109, GRW Complex

University Bookstore

Author's autograph session

Professor William A. Neese, author of Aircraft Hydraulic Systems, will be featured in an author autograph session at the University Bookstore from 9 am to 11 am, Feb. 23, 1990. A retired Master Sergeant of the U.S. Air Force, he received his Associate of Arts degree in Aeronautics from Merced Cilege and a Bachelor of Arts from the University of Central Florida. Professor Neese has been employed at ERAU since 1979 in the Department of Aircraft Maintenance Technology and he was promoted to Associate Professor in 1989.

His textbook was developed and first printd in 1984 for persons preparing for certification as an airframe mechanic. Also it provides basic information on principles, fundamentals and technical procedures in the subject matter areas relating to the airframe rating, and it is especially designed to aid students enrolled in a formal course of instruction as well as the individual who is studying on his own.

Rober L. Long, University Bookstore Manager, and his entire staff are excited about the autograph session and are extending an invitation to the academic family at large and all students to come and meet Professor Neese, purchase a copy of his textbook and have it autographed by him.

Place your orders

The University Bookstore cashiers are accepting orders for faculty/staff academic apparel for April's graduation. Graduation cards and announcement inserts have been received. Retail is \$0.75 per set, plus tax.

Income tax preparation

Volunteer Income Tax Assistance will be available every Tuesday from 5 pm to 8 pm in the Conference Room in Room A-117. This is run in conjunction with the Taxation Class taught by Ms. Wilson.

CALICO JACK'S

MON- 3.00 PITCHERS COORS LITE
TUES- WORLD FAMOUS .25 BEER NIGHT
WED- CUP NIGHT- 1.50 BUD/ MILLER
 1.75 MICHELOB/ MICHELOB LITE
THURS- 1.00 IMPORTS
FRIDAY- NIGHTLY SPECIALS
SAT- PROGRESSIVE NIGHT, PROGRESSIVE BEER
 W/ PROGRESSIVE MUSIC
 .10 BEER 10-11 PM
 .15 BEER 11-12
 .20 BEER 12-1
SUN 3.00 PITCHERS
 DAILY HAPPY HOUR 5-7 PM/ 11- CLOSE
 .50 BUD
 .50 MILLER
 1.00 WELL



MAKE CALICO JACK'S YOUR PARTY HEADQUARTERS
 2 SOUTH ATLANTIC AVENUE, ORMOND BEACH, FL.
 672-6734

Autos for sale

1970 Datsun 240Z—Mag wheels, great interior, rebuilt engine. Some frame rust. Will sell whole or parts. Call Alison at 257-5447.

1980 Chevy Camaro—Newly rebuilt engine, A/C, PS, PB, tint. \$1700 obo. Call Mike 274-4963.

1985 Ford Bronco—47000 mi., like new 4 by 4. \$6600 obo. Call Sid at 258-0939, leave message.

1981 Honda Accord—Must Sell. \$850. Call Mark Ross at 258-7673 or Box 8672.

1981 Dodge Omni—4 dr., H/B, A/C, PS, PB, automatic, 81000 mi. All maintenance receipts. Must sell. Graduating. \$850 obo. Call 756-2377 for Dec.

1983 Renault Alliance—DL, PS, PB, Air, 5 speed stick shift. Asking \$1700. 253-5416

Room for Rent in 3 bedroom, 2 bath house in Port Orange. Built in Sept. 1988. Your own bedroom with bath. All appliances. Washer and dryer. For rent from May onwards. \$320 mo. ALL utilities paid. Call 756-2377 for Dec.

Roommate needed, Cypress Landings. 2 bedroom, 2 bath. 2 mi. from ERAU. Call 258-9680.

Misc. for sale

Carpet for sale—12 by 15 ft. brown carpet. Great condition. Must sell. Only \$25. Contact Eric at 252-2277 or box 7250.

For sale—22 cal. Rifle. Very clean, rarely used. Contact Lance at box 3564 or 239-0382.

For Sale—CYCLEPRO 13 speed mountain bike. Recently tuned up. Rims and looks like new. Only used for 2 semesters. Asking \$225. Call 677-4042 anytime. Ask for Ed.

For Sale: Brand new Softcom C-40 Headset, \$140. Also AVSTAR \$40. Call Jeff at 238-3355.

For Sale: IBM PC/XT, Dual disk drive, 5 1/4 in. floppy, enhanced keyboard & IBM Programs. Much software including Word Perfect, LOTUS, Primavera, etc. Also includes oak work station. All for \$1600. Call Pauls 239-6241 weekdays from 8-5.

For Sale—Complete Seiba Gear Package. Hardly used. Quality gear, must sell. Will sacrifice. Call afternoons or evenings at 761-9611.

For Sale—IBM PC Convertible, 2 720K disk drives, 640K RAM, SurfPat, 1200 baud internal modem. Enhanced LCD graphic menu. 5900 obo. Call 767-2168 or Box 5161.

For Sale: Schwinn 12 speed bicycle. Comes with water bottle, tools, tote bag, and bike rack. Good condition. \$80 obo. Call Jim at 255-4663 or leave a message in box 5427.

ATTENTION—EASY WORK EXCELLENT PAY! Assembly products at home. Details. (602) 838-8885 Ext. W-18183.

ATTENTION—HIRING! Government jobs—your area. Many immediate openings without waiting list or test. \$17,840 - \$69,485. Call (602) 838-8885 Ext. R-18183.

ATTENTION—GOVERNMENT SEIZED VEHICLES from \$100. Fords, Mercedes, Corvettes, Chevys. Surplus Buyers Guide. (602) 838-8885 Ext. A-18183.

Market Discover Cards on your campus. Flexible hours. Earn as much as \$10.00/hour. Only ten positions available. Call 1-800-950-8472, Ext. 3015.

Need NY contact. Tina. 238-0712.

SIL,
Hey Wood-Stock where's Snoopy.
LOVE VISITOR

YO DAVEY
Stop Worrying!!
LOVE KAREN

I KNOW IT'S LATE BUT...
Happy Valentines Day Ken. Cupid's arrow done stuck.
LUV DICKS AND SNOOPY

DEAR ICE,
Is that what spooge is.
LOVE VISITOR

GREG
Get your shin in
DAVE

TO MY NORMAL GUY,
I like out soap opera, how 'bout you?!!
SWEETNESS
P.S. Want to give Ponce another try?

TO ANONYMOUS
Please come forward, I don't like to play games. It still seems like a game.
MARK C. DELP

DIANE L. WHELTON
How's ya bug? Hope you feel better.
LOVE YOU MARK C. DELP

AAAAAAAAARRRRRRRRGGGGGGGGHHHH
HHHHHHHHHHHHHHHHHHHHHH

BILL,
Now my mouth is drooling. What are you going to do about it.

1007
I got to get some more mud.
GENE

IRM
Ok, come on!
YOUR ROOMMATE

IRM
Welcome to the art of par heading.
YOUR ROOMMATE

THANK YOU DARRIN,
I couldn't have figured it out!

ROB
To become a monk, would waste a thunk!
KAREN

MIKE, JOE AND RON,
Has this not been the most intense "week from hell" you've ever lived through?
EX-COPY EDITOR

THE WORLD AT LARGE,
Men are the most beautiful objects I've ever had the pleasure of experiencing. The simple, hard lines and angled planes that compose their bodies share a bond with the eloquently logical and rational functioning of their minds. They are beautiful in their strength and power.
TINA

CRAIG,
So...
YOUR ROOMMATE

I love this section of the paper. People with nothing to say finally have the chance to say it.

MARK,
Traffic during race week wasn't so bad. We had things to keep us occupied. I'm glad you own a van.
TRACY

DAVE,
God you look great in a pair of shorts.
SOMEONE WHO SAW YOU

People who ride pink mopeds have problems!

JOHNNIE,
How's work?
MARY

LOIS,
Thanks for the loan.
DAVE

THE CLUBHOUSE GANG,
Did someone burn your clubhouse down? Or did the police finally kick you out of the elementary school playground?
EVERYONE WHO HAD TO READ YOUR PERSONALS LAST SEMESTER

JEFF,
I know that you keep asking yourself why, but it's alright. If you didn't, I would be worried. Just do it until you can think of a good reason not to.
ANDY

DAVID AND KELSEY,
Creating the two of you will be the hardest thing I've ever done. I'm only 18 and I've never tried this before, but if I succeed it will be worth it.
THE WRITER

PSEUDO TINA,
You're a poor, inadequate and highly inconsistent substitute. Thanks anyway.
TINA PAN

Does anyone know what those insects are that fly around the pool and use the chlorinated water as a mass grave?

TO THE AUTHOR OF I'M SORRY VAL,
Did she ever forgive you?
JUST WONDERING

DONALD PAUL,
Just letting you know I'm thinking about you.

TOM VONTEVENAR,
It's good to know that you exist...
THE WHITE ROSE

JORDAN,
I want to marry you.
KATE

MALE POPULATION OF ERAU:
Do you guys ever do anything besides complain about the male to female ratio?.. We didn't think so.
FEMALE POPULATION OF ERAU

FLORIDA DRIVERS,
Did you know that playing car tag with pedestrians is somewhat unethical if not illegal?
A PEDESTRIAN

TIMOTHY JOSEPH MAZUREK,
I love you. I can't say it. I can only write it, robbing the words of their solemnity by placing them in the most inappropriate place I could find.
THE ONLY ONE WHO WOULD DO THIS

THE ADMINISTRATION,
I'm back. If I join the basketball team will you give me a scholarship?
STUDENT 576-92-0118

CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- ➔ All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- ➔ Commercial advertising is available through the Avion advertising department.
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- ➔ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- ➔ Ads will run for two issues and may be renewed by filling out another classified ad card.
- ➔ No classified ads will be accepted over the phone.
- ➔ For more information, stop by or call the Avion office at (904) 239-6049

Engineering Calculator: HP41CX and Advantage Module (345) in perfect condition. For \$170, including all manuals. Call Kevin 254-0761.

Why doesn't anyone want to buy my HP-41CV calculator? It's in excellent condition. \$90. Please call me, Matt 274-1937.

IBM-AMSTRAD Portable PC: 640 with carry case, 2 1/2 1/2 in. drives, CGA Card, modem, and printer. Tons of software included. \$1200 obo. 255-4767.

For Sale: Social TV, Fan. Call Kelly at 253-1125.

Miscellaneous

FREE! 2 cats, need separate homes. Four year old tabco female, three year old orange (Garfield look) male. Both are friendly and affectionate, are neutered and have all shots. Call 253-5416.

Ramon, M: I found your calculator. Call me to claim it. 253-2333.

Wanted: 1983-85 Volkswagen GTI in good condition. Contact Ray Box 1118.

Interested in learning French or currently enrolled in a French class, and need some help! Please contact Agnes in Rm 248 Dorn I, or at 258-9968 or leave a message in Box 1035.

Wanted: model for photography sessions. Offering fine portraits. Creative photography. Call 252-4952, leave message for Ron.

Wanted to buy—Upper performance mountain bike for serious rider (i.e. trek, Nishiki, Cannondale, etc.) Used or new condition. Will look at anything. Call Steve at 238-1337, leave message.

Rick's Mobile Window Tinting. "I come to you." Cars, trucks, vans, boats, R.V., homes, businesses. 5 yrs. exp. Call 238-3857, leave message for Rick.

Personals

TO SOMEONE WHO SHOULD STILL BE A FIGHTER PILOT,
It's never over till you've exhausted all possibilities. Fight for what you believe in. You've come too far. Listen to your friends. A FRIEND.

I'm not sure if it is the pink scooter next to the man on it that turns me on. (Dinn)

BINO
Where are you?
CORIEN

HEY ANTHONY (ANTHY),
How does it feel to be 19 and one week?
CBI

JENNY,
How was the trip?
CORIEN

TO MR. SENN
Chris Lloyd tried to steal those pants. But they were so large they wouldn't fit under the bathroom door.
MARK C. DELP

SMS,
He walks weird, talks a little strange too, and you just can't year off town. This is Space Man Spiff, he is all around.
STROHS BOY.

YO EINTSEINS AT EMBRY,
Reward. Looking for best definition of "Spooon." If you have the proper answer print name and number in personal with answer.
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