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Embry-Riddle Aeronautical University

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Space Technology

B

Volume 64, Issue 8

March 14, 1990

Aerospace Society hosts Spaceweek

by Jose Luis Vazquez Jr.
Space Technology Writer

This semester like previous semesters, the Embry-Riddle Aerospace Society (ERAS) will once again present what has become a tradition at the university, Spaceweek '90. Like other semesters, it promises to be another great exhibit.

The purpose of this grand activity is not only to show how active the club is, but also to educate

the students and faculty.

"The exhibit is designed to be both informative and interesting," said Mike Fried, President of the society. "Our goal is to make all aspects of the space program known, not just the space shuttle and KSC."

Spaceweek will be located in the banquet room between the Landing Strip and the U.C. It will be open between 9 a.m. and 4

p.m. starting today, March 14, and continue through Friday March 16.

"Our goal is to make all aspects of the space program known..."

**Mike Fried,
President ERAS**

The featured event will be a guest speaker from Lockheed to discuss their roll in shuttle process-

ing. The lecture will be at 7:00 p.m. in E-609, and all are welcome.

The walk through exhibition will let you go back into the past and see the predecessors of the historic Mercury program, the mammoth Apollo days, and today's space shuttle. It will also give you the chance to experience the future with the Starship Enterprise.

There will be a small movie theater with continuous NASA footage. These films will show the making of space history as recorded by NASA cameras. You will be able to experience first hands what its like to be in the NASA program.

As you walk from one room to the other, you will see rocket displays, models, and other memorabilia collected throughout the years.

Payloads may be processed at FIT

Melbourne, Florida--The Space Research Institute and Payload Systems Inc., Cambridge, MA, held a special press conference February 27, 1990 to announce the two organizations are negotiating a business arrangement to establish a processing facility for space experiments at a Florida Institute of Technology building in Titusville, FL.

Once the agreement is finalized, said James A. Ralph, director of SRI's Center for Space Enterprise Research, the Institute will provide management, scientific services, and engineering support in the form of faculty and student personnel, as well as physical resources such as office facilities and specialized equipment. SRI's industrial partner, Payload Systems, will provide management, marketing and technical expertise.

Small scientific payloads could include experiments that must be done in the gravity-free environment of space. Such projects include crystal growth experiments and stress tests on materials for the proposed Space Station

Freedom.

Payload Systems, a subsidiary of Space Industries International, Inc., was founded in 1984 to provide science and engineering services for researchers undertaking experiments in space. The company assists researchers moving from a ground-based R&D laboratory to experimentation in space, and has supported many U.S. and foreign clients through all stages of their spaceflight projects.

The Space Research Institute was established in 1987 with the goal of becoming a center of research excellence for the Florida Institute of Technology, and to serve as the focal point for interdisciplinary, multi-university space research. The development of a strong space research organization in close proximity to America's East Coast spaceport is seen as a key element in strengthening Florida's ability to realize future development associated with America's space program.



Lifted off...

The space shuttle *Discovery* was hoisted from the Orbiter Transporter last week and mated to the solid rocket booster and external tank assembly. After proper interface checks, the shuttle will roll out to Pad 39-B, scheduled for tomorrow. The mission is set for April 12 and will deploy Hubble.

Conference discusses opportunities in space

by Michael Fried
Space Technology Writer

"90's Decade of Opportunity" has been chosen as this year's theme to the 27th Space Congress, to be held the week of April 24.

The annual Cocoa Beach gathering, otherwise known as the "Premier Conference on Space Technology", is a place in which industry and agencies get together on space issues. The four day session will include speakers and exhibits all of which is open to the public.

Day one, April 24, Congressman Bill Nelson will deliver the opening speech. The remaining days will include such speakers as Richard Truly, NASA Administrator; Barbara Morgan, Teacher in Space designate; along with speakers from Lockheed, the Air Force and more.

The highlight, also open to the public, will be a Meet The Astronaut session on the last day. The astronauts, not

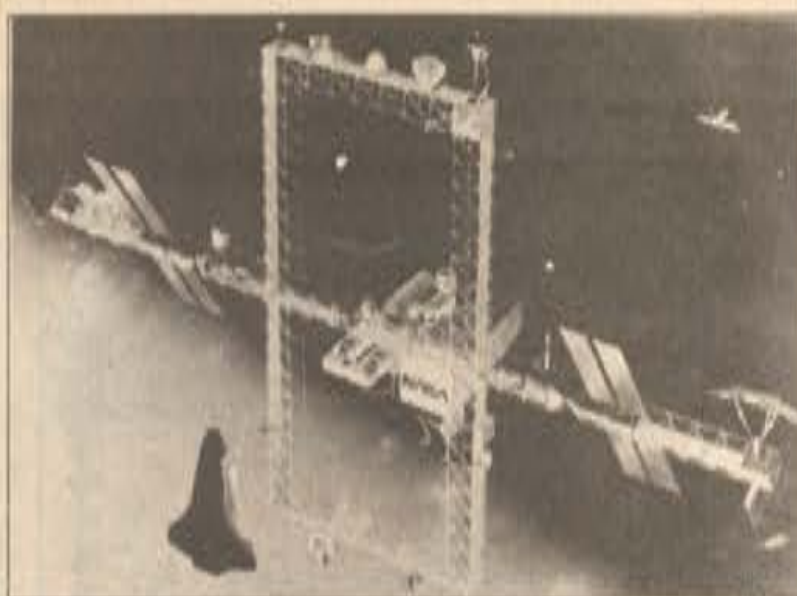
yet named, will speak to a crowd of people inside a conference room in one of the two hotels designated for the Space Congress.

The public is invited to attend the space exhibits on the first three days of the event. Company representatives will be on hand to explain their exhibits or answer any questions. The lectures, located in another hotel, will be speaking in closed and open sessions.

The open sessions, open to the public, will cover Commercial Initiatives, the Space Station, Technology Payloads, and Military operations along with shuttle operations.

Space Congress is an excellent opportunity to meet industry executives and to become familiar with the aerospace field.

A more detailed schedule will be featured in the *Avion* at a later date; however, information can be obtained by calling Space Congress Information at (407)-783-0220.



Talked about...

The space station *Freedom* will be one of the topics discussed at this year's Space Congress to be held in Cocoa Beach next month.

Hughes renews trust in Ariane

by Derrick Seys
Space Technology Editor

Hughes Communications recently signed a launch service contract with Arianspace to carry two satellites into orbit, showing the competence they entrust in the company's Ariane IV rocket. Three weeks ago, one such rocket exploded shortly after lift off from the Guiana Space Center in French Guiana.

The contract will require Arianspace to launch one hybrid satellite for Hughes in 1992 and another in 1993. Options for two additional launches were also contained in the agreement.

"Arianspace is particularly proud of the renewed trust demonstrated with the signature of this important contract by Hughes, the largest private operator of satellites as well as one of the world's most important satellite manufacturers," said Arianspace Chairman Frederic d'Allest.

The agreement brings the number of satellites to be lofted into space by Arianspace up to 34 with a value of \$2.4 billion. The loss of Flight 36 has put their launch services on hold.

In order to get a complete understanding of this loss, a Board of Inquiry was appointed. The findings of this board will be made available on March 20 and no significant information will be released prior. The group is attempting to discover the cause for the explosion and a solution to correct all anomalies found.

Early investigations revealed the combustion chamber pressure in one of the four liquid strap on boosters was resulting in insufficient thrust. The other rockets swivelled and attempted to compensate for the loss and resulted in the creation of excessive dynamic pressure. These loads caused the Ariane IV rocket to explode.

Biosphere technology leading to planetary outposts

by Marianne Michaels
Space Technology Writer

There is a place just North of Tucson Arizona that will simulate what human life may be like living on Mars or on a space station.

It is called Biosphere II.

The structure covers approximately three acres and is entirely an enclosed system.

The Biosphere II project cost \$30 million to build and is completely privately owned. The company that created Biosphere II is Space Biospheres Ventures. The people who could most benefit from all the research will be space programs, universities, government agencies, and research institutes.

Biosphere II contains seven biomes consisting of a tropical rainforest, tropical savannah, marsh, marine, desert, and a human habitat and agriculture all enclosed in an airtight sealed glass structure.

The tropical rainforest biome will be modeled after the Amazon rainforest and is approximately 85 feet high and has 20,000 square feet of floor space. It will contain over 300 plant life and will have a 50 foot mountain. It will contain a stream which will fall down the mountain and flow into the tropical savannah.

The tropical savannah biome will be modeled after the savannahs of Africa, Australia, and South

America. It will contain many species of insects to help in pollination and the recycling of nutrients.

The marsh biome will consist of a stream flowing from the fresh water area to the salt water area. It will be modeled after the Florida Everglades. It will contain species of small animals such as frogs, crabs, and turtles. The stream will then flow into the salt water ocean.

The marine biome will consist of a

25 foot deep ocean and will contain a coral reef, beach, and a lagoon. It will contain 1000 species of different plants and animals such as living corals, starfish, and parrot fish. It will contain a wave machine to circulate food to plant life on the bottom of the ocean and oxygen to the coral reef.

The desert biome is modeled after a desert in Baja California. It will contain a dried salt lake bed and a sand dune. It will also have shrubs and

cacti.

The human habitat biome will be five stories high and will consist of apartments, laboratories, computer and communication facilities, recreation and libraries. It will have telephone, radio, television, video, and computer telecommunication with the managers of the project to monitor their progress.

There will be a small medical facility in case of illness and if any-

thing serious happens, there is an emergency airlock exit.

The agriculture biome will consist of the food crops and will have animals such as chickens, goats, pigs and an aquaculture. The types of fruits will be bananas and strawberries, and there will be several types of vegetables such as sweet potatoes. No pesticides will be used and water will be recycled.

Everything in Biosphere II is monitored continuously by computers, from monitoring the health of the coral reef to checking for leaks in any one of the many structures.

Computer sensors will be placed throughout the facility to measure the quality of air to make sure it is within standards of safety.

The reasons for creating the Biosphere II project was to provide a way for humans to understand our own Biosphere (Planet Earth), to find new ways of recycling and managing our own environment, and to provide knowledge of putting humans on a permanently manned space station or on another planet.

In September 1990, researchers will seal the airlock and the eight people who will live there for two consecutive years. Everyone including researchers hope for its great success and excellent health of the eight people who will venture in this beneficial experiment.



Home away from home...

The Biosphere is developing the technology that will be needed for self-sufficient lunar and martian bases.

**Don't forget
Lockheed
speaker tonight
7:00 p.m. in E-609**



Up, up, and away...

Deliveries of the Boeing 737-500 twinjet began this month when Southwest Airlines received their first 737.

Southwest receives 737-500

by Joseph A. Salerno
Aeronautica Editor

The first Boeing 737-500 was delivered to Southwest Airlines (U.S.A.) on February 28. The airplane, which received its certification from the Federal Aviation Administration on Feb. 12, was delivered to the Southwest home base in Dallas, Texas which has ordered 38 of the -500s.

The 737-500 is powered by two CFM56-1B1 engines and will play a major role in Southwest's service to 30 cities in 14 states. The airline is the eighth largest in the U.S. in terms of passengers carried, and currently operates a fleet of 64 Boeing 737 aircraft, including 46 of the -200s and 48 of the -300s.

Southwest was a launch customer for both the Boeing 737-300 and the 737-500. Launched in May 1987, the 737-500 rolled out of the Renton plant

Since all three offer a common type rating, the three new 737 models enable airlines to select the right airplanes to match traffic demands.

on June 3, 1989, with its first flight occurring on June 30, 1989.

The shortest fuselage version of the advanced technology 737s, the 737-500 is set up with 108 seats in a mixed-class layout and provides operators a quiet, more fuel efficient replacement for the 737-200. It compliments the 737-300, seating 128 passengers and the 737-400, which seats 146 passengers.

Since all three offer a common type rating, the three new 737 models enable airlines to select the right airplanes to match traffic demands. Reduced training, maintenance, and spare parts costs are some other commonality advantages.

In total, nineteen customers have ordered a total of 193 737-500s. The second -500 will be delivered to Braathens SAFE (Norway) in early March.

Valiant shows warbirds at Airshow 1990

by Joseph A. Salerno
Aeronautica Editor

Crowds were thrilled to the sights and sounds of World War II combat aircraft this past weekend, at the Valiant Air Command's Airshow '90, held in Titusville, Florida. The event lasted from March 9 to 11 and was graced with cloudless skies and lots of sun.

Early each morning until twelve noon spectators were able to walk along the flight line and get up close with the towering warbirds. At twelve the flight line became an active taxiway, and at one o'clock the show began.

The show started off with a low fly-by of an A-10 close assault aircraft and a hovering display by a Harrier jet.

Directly after the jet displays, the warbirds took to the sky to show off

their grace. The show began with a mock dogfight between T-34s and Zeros, which were authentic Japanese T-34s.

The next attraction was an aerial display by T-6 Texans which showed excellent formation flying qualities.

T-28 Trojans took to the sky next. The T-28s carried some of the more colorful insignias found at the show.

Next in line were the TBM Avengers and P-51 Mustangs which flew formations with each other. A lone Mustang put on a spectacular aerobatics display, and later rejoined its fellows who promptly flew back to the grounds in formation with an F-9F Panther, one of two flyable Panthers remaining in the world.

A Douglas Skyraider also joined the P-51s, and eventually flew an aerial display on its own.

A T-37 Dragonfly performed low-



Death from above...

A TBM Avenger touches down after an aerial display of maneuvers which simulated the anti-submarine bombing tactics used by the plane during the war.

altitude, high-speed fly-bys along with a Fouga Magister both planes displaying the noise of their engines.

A formidable fleet of bombers was shown off by VAC, including A-26s, some of which were modified versions, B-25 Mitchells, which flew in close formation, and a newly restored B-24J Liberator, one of two in the world which are fully restored and flyable.

Other non-combat aircraft which flew were the Fairchild C-119L transport, the C-45H, the C-47A, and the C-47's cousin, the R4D-8.

Static displays included showings by the Navy of an A-6 Intruder, and its variation the EA-6B Prowler, an E-2C Hawkeye ECM craft, a C-2 Greyhound COD variation of the E-2C, and an SH-3 Sea King helicopter.

All during the show, the crowd was thrilled to pyrotechnics displays

across the field, as the planes made mock-bombing runs. At one point during the show the grass field between the runway and the main taxiway was set aflame by a stray pyrotechnic. The field continued to smolder through the entire show until, at the end, the VAC realized the dilemma and put the fire out.

Food and refreshments were on sale for the crowd, with items such as funnel cakes, barbeque beef sandwiches, and fresh squeezed lemonade available.

T-shirts and souvenirs were also available for sale.

Started by 12 people with one airplane in their possession, Valiant Air Command now boasts a membership of 4,500 people and over 350 planes. The overall goal of VAC is the restoration and preservation of warbirds and aircraft from any era.



Neatly folded...

A Douglas Skyraider makes its way down the main taxiway, with its wings folded, in front of the crowd after performing an astonishing aerobatics display.



P-82 Defiant...

A new concept in World War II aviation, the Defiant was a two-seat fighter concept whose purpose met with mixed opinion from pilots and wartime strategy experts.

AERO IDENTIFICATION

Name.....

ID Entry.....

ERAU-box #.....

Return this form to the Avion. The exact entry drawn, as to the 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.

ID winner announced

Congratulations to David Kvech, this week's Aero ID winner, for correctly guessing last week's plane as the Boulton Paul P.82 Defiant I. Good job Dave.

The P.82 was a new concept for World War II when first developed. The two-seat fighter design was armed with four 0.303 in. Browning machine guns in the rear turret.



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Ray tracing produces great graphics

by Davide Bruzzone
Data-Tech Writer

Ray tracing, which evolved from techniques used by scientists to study the paths of sub-atomic particles, is a process by which a computer is able to trace rays of computer-generated light from its simulated origin to an observer in simulated, three-dimensional space. The end result is a stunningly realistic three-dimensional image that can be animated and viewed from any angle desired. Until recently it could only be accomplished by the most potent supercomputers, manned by large teams of programmers and engineers. Now home computers such as the Commodore Amiga can achieve similar results, at a fraction of the cost.

The first ray tracing packages became available shortly after the release of the Amiga, about four years ago. The Amiga's custom hardware chips give it the ability to display up to 4096 colors on screen at once and resolution high enough to display the smallest of details. In addition twenty-four bit frame buffers can be used to display up to 256,000 colors from a palette of 16.7 million. Recently the Apple Macintosh made its debut in the ray tracing market when Byte by Byte software released the first program of its type for the Apple.

Although such results would not be possible without these powerful machines, the real soul of ray tracing lies in the software. The software was not ported over from less powerful machines, but filtered down from the most powerful of mainframes and supercomputers, forcing the programmers to be creative and squeeze as much power and performance out of the machines as they possibly could. The results of these efforts speak for themselves.

The first ray tracing package was Sculpt 3D by Byte by Byte Software in 1986. The program has evolved to allow animation and is currently known as Sculpt Animale 4-D (\$499.95) for the Amiga. All of the packages come with extensive, yet easy to understand documentation which is as informative and educational to the ray tracing neophyte as it is to the seasoned veteran. All the programs use the same intuitively simple user interface which quickly enables even first time users to create stunning images and animations. Beginners and experts agree that these packages are the best on the market, being easy to use, flexible and, most importantly, being able to produce results of the highest quality.

Shortly after the release of Sculpt 3D, Impulse released Silver, which has evolved into Turbo Silver SV (\$229.95) for the Amiga. Turbo Silver does both ray tracing and animation, but features some powerful tools as well. One of the tools is IFF brush wrapping, this lets the user wrap a picture around a



Rays of light...

Ray tracing brings powerful versatility to today's computer aided graphic artist. Images can be easily produced by any computer enthusiast.

three dimensional image. Texture mapping allows the user to assign a certain feature to an object, making the object look like wood, marble or some other surface. Other features include increased control over such variables like an object's transparency, specularly, hardness and roughness. This allows the user to create superior images, the only drawback is that the package requires a certain amount of expertise on the part of the user. Unfortunately neither the manual nor the video, which can be purchased separately, do anything to answer many of the questions that the user may have about the package, making Turbo Silver a second step accessible only to users with previous experience.

Aside from the actual ray tracing packages, there are a host of other tools that the 3D enthusiast can use in order to expedite the production of complex and beautiful stills and animations. Three dimensional object editors such as Videoscape 3D, Caligari and Forms in Flight can be used to create complex

3D objects that can be imported into a ray tracing package through Interchange, a software utility. There is Turbo Silver's terrain editor which allows the user to pick various objects, from furniture to space stations, from a host of data disks. Finally there is Digtworks 3D, which allows the user to turn a 2 dimensional object into a three dimensional object through advanced extrapolation techniques.

In addition, there are two enlightening instructional videos for Turbo Silver and Sculpt Animale 4D and, for the dedicated enthusiast, there is a book from the Abacus company that reveals the mathematical aspect of ray tracing and teaches design in BASIC.

The actual process of 3D object creation, rendering and animation is very simple. With every new picture or animation created there is the discovery of a new trick or gadget that allows the user to create better looking and more complex images or animations in confidence. The journey begins with the creation of the desired objects in what is commonly known as the Tri View. Three two dimensional images are displayed on the screen simultaneously and, when combined together, give the object its three dimensional form. Objects can be created through the use of "primitives", basic spheres and cubes that are included in the package, or more complex techniques that the experienced user would better understand.

The next step is to assign each object its own unique attributes such as color, material, hardness, specularly, reflectivity and transparency. Next, the creation of a background or "world" is priority if desired. This involves the selecting the color of the ground and sky. In addition, the user can choose whether the background colors will be solid, graduated or some other variation.

After this is accomplished, the objects must be positioned in the background. This involves moving the object and selecting how the computer generated "lights" and camera perspective will be positioned. This portion of the image creation is very similar to actual photography and must be done carefully to achieve the desired results.

Next the scene can be animated if the user chooses to do so. The user can choose between "Global" and "Key Frame" animation. Global animation involves choosing a path and attaching the object to it. The computer then creates an animation based upon the objects motion in that path. To achieve even more spectacular effects the user can attach a light source or even the computer "camera" to the animation path.

In key frame animation the computer created the number of frames in the animation and the user

see Graphics, page A11

SPACE QUEST III

Sierra makes new Space Quest III a real adventure

by Joe Cambron
Managing Editor

Space Quest III is yet another volume in the on-going Sierra software saga of space. This graphic adventure is similar to Sierra's other, more popular, game-Lesure Suit Larry. The similarities stop only in setting, and, of course, solution.

SQ3 is an adventure game, meaning that one must search for the solution to the puzzle. These games are more like mysteries than anything else, although this can be a mixed blessing.

Like all adventure games, they are of little use upon completion of the mystery. It is at this time that they serve little other purpose than to collect dust, but this is a given.

SQ3 features a beautiful backdrop complete with shadows, speech synthesis, and EGA/VGA graphics. The opening screen deposits our space hero at presumably where he left off in his last adventure, the space junkyard.

There, in the junkyard, is where his escape pod has come to rest. As the game begins, your eager spaceman exits his craft and begins his new

quest. His goal is quite simple, escape...but the means are more difficult. He must fashion a space ship from the artifacts littering the junkyard.

Certainly, the game has more to it than that. This dilemma only encompasses about ten screens, and there are probably over one-hundred to be completed before the game is over. Simply the game's size (2 megabytes) is testament to its complexity.

Adventure games often require skills found in two dozen arcade games, and this one is certainly no exception. Death can come at any time from any direction, so it is best to save your current position often.

Another welcome feature of the game is its lack of copy-protection which makes it much easier to work with and less troublesome on hard drives.

Apparently Sierra will simply be making its games more expensive rather than building them like a fortress in the future. This particular games retails for around \$50, but if adventure games are to your taste then this one is for you.

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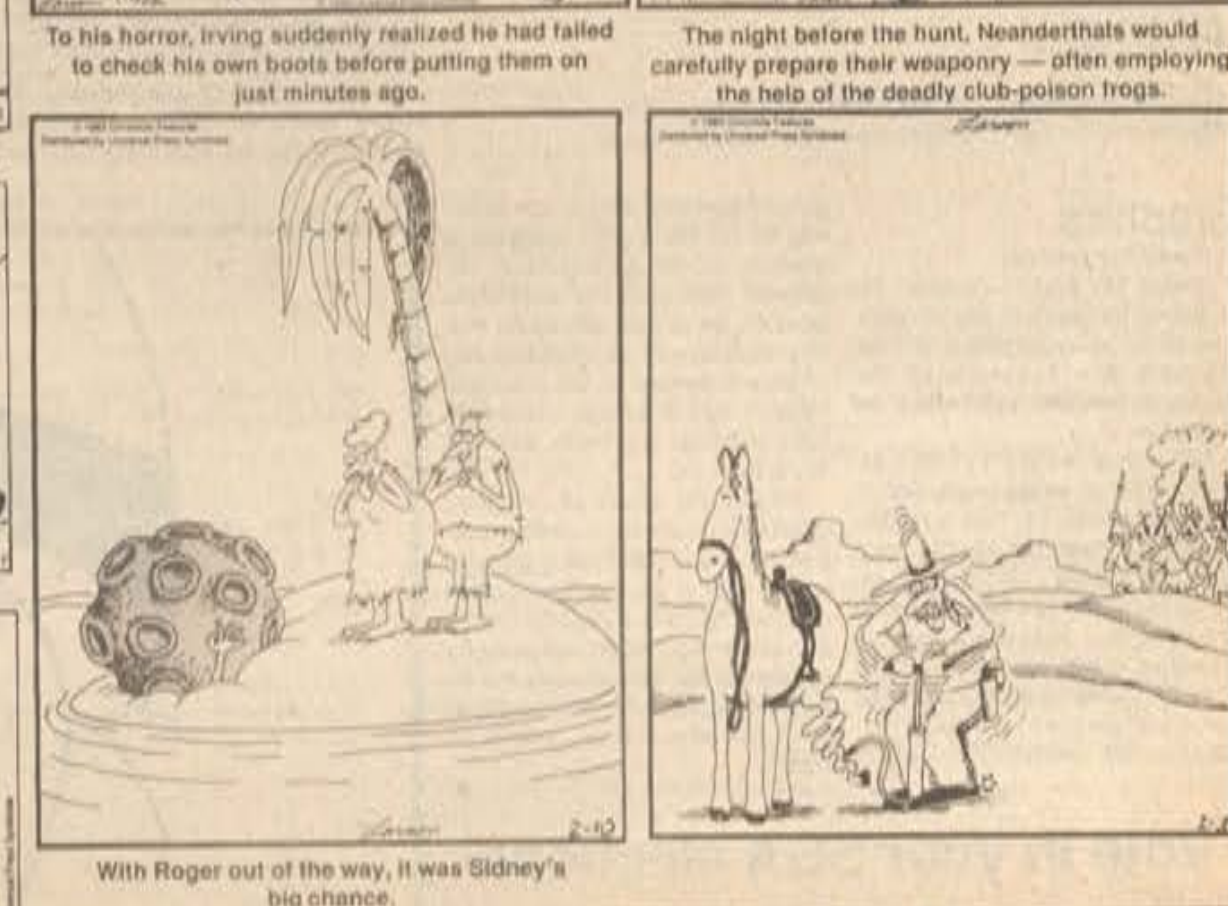
Calvin and Hobbes

by Bill Waterson



Far Side

by Gary Larson



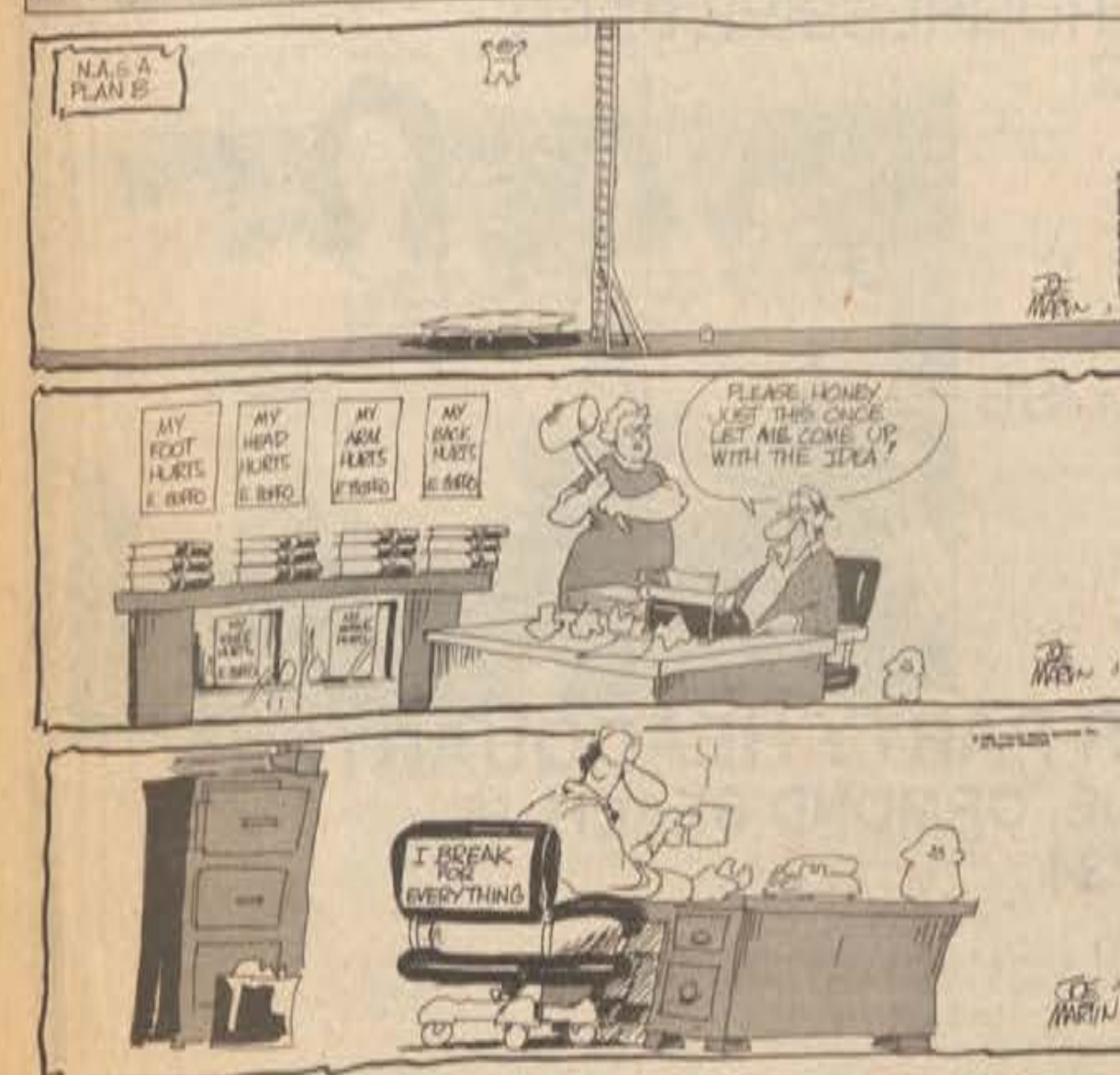
Mother Goose and Grimm

by Mike Peters



Mister Boffo

by Joe Martin



Notices

Counseling Center Programs Spring 1990

Experience+Plus!

We are looking for "non-traditional" students who are interested in getting together 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 affect 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

Free Information

The Counseling 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 a.m. to 5:00 p.m., Monday through Friday.

Parking Policy

Effective immediately, all regulations concerning parking violations are being enforced for ERAU student vehicles and other vehicles.

Graphics

(continued from page B3)

creates key frames, usually the beginning, intermediate and last positions of the animated object, and the computer then calculates all the frames in between and creates the animation.

Although ray tracing is a highly advanced form of image production, it has a few drawbacks. First is rendering time. Depending on the complexity of a scene a single scene can take anywhere from a few seconds to about two days, meaning a complex animation could turn into several weeks of waiting. This problem can be solved with the purchase of a CPU accelerator card, a wonderful but costly

piece of hardware that can turn weeks into hours. The second drawback is memory and storage capacities. The software tends to take up much of the memory, the images take up the rest. The easiest way to eliminate this problem is through the use of another memory card or through a hard disk. Even with these drawbacks, the end is worth the wait.

Clearly the future of computer graphics is three dimensional ray tracing. While the enthusiast is attracted to it because it is fun to do, the astute designer, architect or engineer can use it to create superior presentations for customers. He who uses ray tracing for work or play today may well have a valuable edge over his peers in the future.

Income Tax Preparation

Volunteer Income Tax Assistance will be available every Tuesday from 5:00 p.m. to 8:00 p.m. in the Conference Room in Room A-117. This is run in conjunction with the Taxation Class taught by Ms. Wilson.

University Bookstore

The University Bookstore cashiers are accepting orders for faculty/staff academic apparel for April's Graduation.

Attention: Cheerleading Tryouts

Varsity cheerleading team signup starts March 12 (Monday). Tryouts are open to male and female students who are interested in showing spirit and pride for their school. The deadline for signup is March 23 (Friday). A mini camp will be given March 31 (Saturday) from 9 a.m. to 1 p.m.. The following week practice will be held every night from 5 to 7 p.m.. Tryouts will be held on April 7 (Saturday) from 9 a.m. to 1 p.m.. Applications can be obtained at the off-campus Housing Office, Dorm 11, room 274 from 8 a.m. to 5 p.m.. Any questions call 239-6560 ask for Trudi Peckham.

SGA elections coming soon

SGA elections for President, Vice President, Supreme Court Chief Justice, and members of the Student Representative Board and the Student Finance Board will be held Thursday, March 15 from 9 a.m. to 4 p.m.. These will be in the Student Center and in the AMT Complex.

There is a field of approximately 20 candidates running for the various offices within the SGA. Your support is greatly needed for the these students, if they are to be successful. So bring a friend and vote.

They are here to represent you and want to know your opinions, concerns and problems. Help them serve you better. Stop by the SGA Office in Room 140 of the Student Center.

Vote and voice your views. You do make a difference.

Management Club hosts FAA Administrator

The Management Club will entertain James B. Busey, the FAA Administrator here at ERAU on April 10, 1990 from 10 a.m. to 2 p.m.. The point of contact for this endeavor is Tracie Anderson, box 7614.

ODK will sponsor seminar on leadership

Omicron Delta Kappa will sponsor Capt. Kim Scribner to speak for a leadership seminar on March 20, 1990. See the ODK club presentation board in the S.C. for details.

IFC Softball Marathon comes to Riddle

The Inter-Fraternity Council will run a softball marathon on March 16 to benefit the Special Olympics. Contact Ricardo Castellon at 767-8140 for details.

Speech Night coming to Student Center

The Humanities and Social Sciences Departments will present Speech Night Spring 1990, on Wednesday, March 28 at 8:30 p.m. in the S.C.

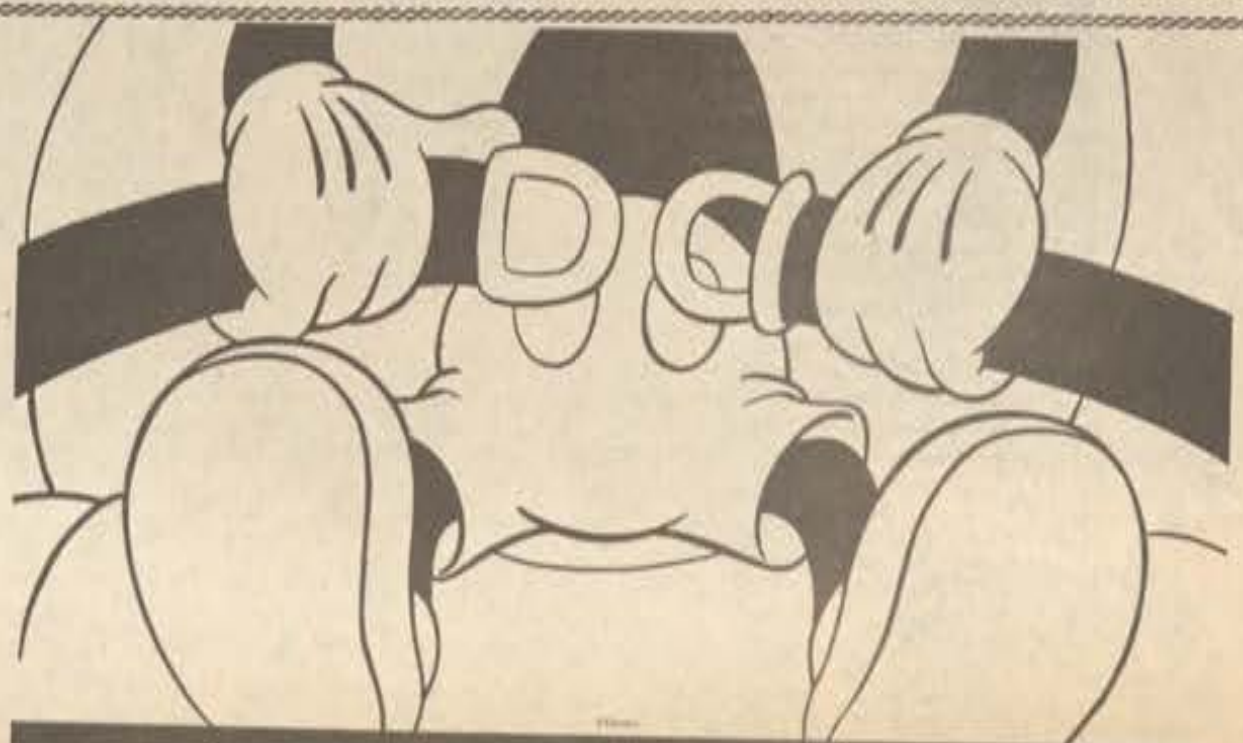
Speech Night is staged each spring and fall to recognize those students of the speech classes who have done outstanding work. Auditions for HU-219 students will be held at 6:30 p.m., Monday, March 19, in W-306.

All members of the student body, faculty, staff, and friends are invited to attend the March 28 performance.

Vote in your SGA elections

It is your right.
Exercise it!

Thursday in the Student Center



Buckle Up For Spring Break '90

CALICO JACK'S

**MON-
TUES-
WED-**

3.00 PITCHERS COORS LITE
WORLD FAMOUS .25 BEER NIGHT
CUP NIGHT- 1.50 BUD/ MILLER
1.75 MICHELOB/ MICHELOB LITE

**THURS-
FRIDAY-
SAT-**

1.00 IMPORTS
NIGHTLY SPECIALS
PROGRESSIVE NIGHT, PROGRESSIVE BEER
W/ PROGRESSIVE MUSIC

.10 BEER 10-11PM

.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



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2 SOUTH ATLANTIC AVENUE, ORMOND BEACH, FL.
672-6734

→ Autos for sale

1983 Jeep CJ-7-33 in. tires, 258 6-cyl engine, 5 speed, 4 by 4, half top, rag top, tilt, PS, PB, asking \$4,000 obo. Call 274-4848.

1988 Chevy S-10 Truck-AC, \$1000 down and takeover \$170 per month payments. Call 672-8777.

1965 Buick Electra 225-4 dr., white, V8-401, 4-1st. \$900. Call Stefan at 254-2980 (afternoons).

1973 Lincoln Continental-2 dr., black, V8-460, 4-1st. \$600. Call Stefan at 254-2980 (afternoons).

1983 Mazda 626-Excellent condition, all power, air, elect. gauges, new transmission. Runs very good. Call Mike at 760-6618.

1980 Chevrolet-Reliable Cheap Transportation, Great engine, \$500. Call 767-0778 after 6 p.m. or ext. 6229 during working hours.

1980 Dodge Omni-4 dr. hatchback, PS, PB, AC, Automatic. All maintenance records. Must sell graduating. Asking \$850 obo. Call Dee at 756-2377.

1988 Jeep Wrangler Laredo-White and black hardtop and grey interior. Every option available (except cruise-control). Has AC and AM/FM/Cassette. 30000 miles, 5 speed. \$11800 obo. Call Greg at 761-6965.

1981 Chevrolet Citation V6 ILO-X-11 body, black, 4 speed, 2000 mi. since engine rebuilt. Crane Cam, headers, dual exhaust, good interior, sunroof, some body rust. Fast sports car with good handling. \$1000 obo. Call 672-5247 and leave message.

1970 Classic Datsun 240Z-Runs great, excellent interior, mag wheels. Needs welding work. A bargain at \$800. Call Alison at 257-5447.

1986 Yamaha SRX 600-1300 mi. Rare, mint cond. \$1800. Call Rob at 252-4355 or box 8321.

1986 Ninja-Late of externals. Parents won't let me keep it. I must sell, but I don't want to. Helmet, radar detector included. New brakes, tire, and bearings. Make an offer. Call 252-8232 or box 6948.

1985 Honda Blito 250-Looks and runs great, low mileage, red. \$950. Call Jay at (904) 258-0269.

1981 Honda Twinstar CM 200-New chain, sprockets, headlight, tires have 1500 miles on them. Runs excellent, great reliable trans. Asking \$390 obo. Contact Steve in Dorm 2 room 219 or box 4135.

→ Cycles for sale

1981 Kawasaki CBR 750-Good cond. Very dependable. Asking \$650. Call 252-5388 or (407) 323-7979.

1986 Honda Blito 250 Scooter-Bought new in spring of 1987, 60 mph, 50 mpg, only 3K miles, black and gold, cover and helmet included. Well maintained, new condition. Must sell, graduating. \$1750 obo. Call Scott at 274-4161 or box 2731.

1981 Honda Passport-70 cc's (motor removed). Great Condition. \$200 firm. Call Tim at 238-1337 or box 8366.

→ Misc. for sale

Want FREE IBM Software?
A modem can be the gateway to hundreds of thousands of programs for your computer. A few minutes on line to a computer Bulletin Board Service can open up a new avenue for your IBM. A new 1200 Baud Modem is only \$89 including installation. A new 2400 Baud Modem is only \$149 with installation. Subtract \$10 if installation is not needed. CALL 238-7355

* \$979 IBM AT Clone w/hard Drive
Unopened, super-fast (15.3 times PC speed). Includes computing's standard the Intel 80286 Up to 4 Megs of RAM possible. 052 capable. 0 Wait State. 1.2 Meg Drive Floppy. Monitor and software. CALL 238-7355

* \$999 100% IBM Compatible Computer *
This unopened, unbelievably low priced system operates at 2.1 times the speed of IBM's PC/XT. 640K Drive. 101 Keys. Monitor and card. Add \$175 for hard drive. CALL 238-7355

For Sale-Surfboard, 6 ft. Rusty, rounded-pin no. thuster, good condition. \$125 obo. Call 253-9051, leave message.

For Sale-10 piece sectional couch in very good condition. Good Price. Call 239-0960.

For Sale-Jump light bar with 4 landing lights. \$60 obo. Call 274-4848, leave message.

For Sale-Waterbed, Queen size, 60 by 84. Book case, head board with mirror, 3 sets of sheets. New condition, will deliver. \$225 obo. Graduating must sell. Call Scott at 274-4161 or box 2731.

For Sale-Panasonic Cordless phone, \$100. Uniden Cordless phone, \$50. Panasonic electronic typewriter, \$100. Double bed, \$30. 2 lamps \$10 ea. 2 alarm clocks, \$5 ea. 16 in. oscillating stand fan, \$15. Small heater fan, \$10. Electric drill (bricks and boards), \$10 ea. Woodshelf for tapes, \$15. Call Stefan at 254-2980 (afternoons).

For Sale-IBM Portable PC runs at XT speed. two 3 1/2 in. drives, modem, carry case, printer, software. \$999 obo. Call Shane at 255-4767.

For Sale-flye catching bike. 10 speed huffy, with lock and chain (girls bike). Brand new, only used a few times. Excellent cond. \$100 obo. For further info. call Lorena at 257-5611.

For Sale-Yamaha PSR-90 electronic keyboard. Five full size octaves with many sounds and rhythms. MIDI capability. \$400 obo. Call Brian at 255-8481.

ARCHERS Would you like to become President? Help motivate the Archery Club/Team. See Prof. Wm. Brown, Glass Office No. 7 or call ext. 6722 or 761-9384.

Need airline or train tickets?-Call Chuck Robinson at 672-6701 between 10 am and 3 pm, Monday thru Friday. Can offer least expensive fares with the possibility of student discounts. Will deliver tickets to campus or your ERAU Box. You may also contact me through ERAU Box 8076

Professional Typing Service-Resumes, Technical Reports, Term Papers. \$1.25 double spaced page. Call 767-0778 after 6 p.m. or ext. 6229 during the day.

For Sale-Brand New in the box Softcom C-40 Headset, only \$149. Jeppesen Sanderson Avstar, new and unopened, \$46. For more information call Jeff at 238-3355.

For Sale-19 in. Emerson Color T.V. with remote control. Must sell, \$250 obo. Call 257-1025 after 5 p.m. or box 6917.

For Sale-Guitar Distortion Box. Has many options, a must see. two yrs. old, in excellent cond., a few buttons are broken, but still usable. Price negotiable. Call 238-6995 or box 8156.

For Sale-Snooper D-2000 Radar Detector. Mint cond., asking a paltry \$50. X and K band, long range. Contact Yourself at box 8908.

For Sale-Fishbowl, 35 gal tank only 3 months old. Great cond. Complete with everything needed. Just add fish and water. Cost over \$185 new, will sell for \$85. Call Lee 756-3471.

For Sale-RC Glider, BZ-2000. New used twice, Hi start, etc. Bargain \$170. Call Rajni at 255-6626 or box 6018 or Dorm II Rm. 251.

For Sale-Winchester Model 1400 Semi-Automatic 12 ga. Shotgun. Mint cond. Ventilated Rib, Win-Chuka barrel adapters. \$250 firm. Also shot shell reloading equip. for 12 ga. Call 761-6736.

For Sale-Plane Ticket. One way from Daytona to Raleigh Durham to Chicago O'Hare. On American Airlines, 1 May '90. Asking \$75 obo. Call Jeff at 756-4246.

For Sale-Amiga 500 System. Two disk drives, one mega byte RAM, keyboard and mouse, 1.3 kickstart and ROM, color monitor. All for just \$500. Call Carl Wilson at ext. 6406.

For Sale-Roll Bar for a small truck. Accepts best offer. Call Susan at 788-4874 after 5 p.m. or Matt at 255-3057, leave a message.

For Sale-Overstuffed love seat with hand made slipcover cover, \$50. 12 speed Pennza Bike, one year old, \$100. Contact Matt at 6767 or 255-3057, leave message.

For Sale-1 way ticket D.B. to Denver, CO or Eastern Airlines. You pick the date to fly. \$150 obo. Call Mark 258-0572.

For Sale-BC Rich Platinum Series Warlock \$200. Great practice amp \$100. Tube Screamer Classic Distortion Pedal \$20, sell them all for \$300.

For Sale-6 ft. 3 in. Surfboard, Tiffin, West Wind team board. Good condition. Call Ed 761-2508 or box 2256.

For Sale-12 speed Schwinn Sprint, good condition. Corner with rack, tools, and tool bag. \$70 obo. Call Jim at 255-4663 or box 5247, leave message.

For Sale-Surfboard Fox 72 in. with leash. Very good cond. \$125. Call Rob at 673-6348 or box 5939.

Build Multi-Time Cheap-Piper Seminole available at \$95 hr. Call Alex at 672-1865 for more info. Certain restrictions apply.

For Sale-Nintendo Games, two action packed games. Both are brand new, only played a few times. Alrceff and Robo Cop. Sell both for \$60. Call Craig at 239-6569 or box 8890.

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.
- Classified advertising is carried out by filling out a classified ad card in the Avion office.
- 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) 259-8049.

For Sale-4 wheel drive remote controlled car. Shaft drive with two fast motors. Includes everything you need to run it, 3 batteries, Quick charger, remote, 4 sets of tires and rims for street, dirt, or ice. Over \$700 worth of equipment and extra parts. Make an offer. See Chris at Dorm II, Rm. 117, or leave a note in box 4333.

For Sale-Headset David Clark H110-40. Excellent cond. \$200. Call Rob at 673-6348 or box 5939.

→ Miscellaneous

Need you papers typed? I can do it. Spelling and Grammar corrected for \$1 per page. Call Matt at 255-3057, leave a message.

Citation Jet Time-Became Citation Jet qualified. Includes 15 hrs systems ground school, cockpit resource management and actual jet time. When finished you will be signed off and Citation Jet co-pilot qualified. \$709. Call 253-2378.

Please someone buy my HP-41 CV. Great for engineering students. Paid \$160 will negotiate price. Call Matt 274-1937.

Wanted to Hire-One Tool Crib Attendant for 8 term spring at the AMT. 215 Turbine Laboratory. Hours 10 am to 12:30 p.m. daily. Please apply to Prof. C. Ott at AMT. A working knowledge of tools necessary.

Need PIC or second in command time? As low as \$11 per hour. Already rentals starting at \$22 per hour wet. 182, 172, 150's. Call 253-2378.

German Car Repair-Specialize in VW, Audi, Rabbit, Golf, GTI, Jetta, Scirocco, Beetle and Super Beetle. 10 years experience brakes, struts, C.V. joints, routine maint, overhaul. Factory Trained. Only \$14 per hour labor for ERAU students, faculty. Labor warranty. Call Rob Warlick at 238-0386 or box 2193.

Taking applications for Turbine Lab Assistant in AMT 215. Powerplant license necessary. Hours are 12:30 to 3:00 p.m. daily. Apply to Mr. Moore at AMT.

MULTIENGINE FLIGHT TIME-Around \$35 per hour for Piper Seneca trips to Bahamas, March 24, 25, April 13-14; Spring Break, other dates also. Contact Chris Nicholson box 6151 or 788-7552.

BAHAMA WEEKEND GETAWAY-Trips to the islands, scuba, snorkel, parasail, party. March 24, 25; April 13-14; Spring Break, other dates also. Shared expenses. Contact Chris Nicholson box 6151 or 788-7552.

Up and coming rockers Double Cross searching for good vocals to rock Skid Row, Great White, White Lion, and good originals.

Wanted-100 feet of flight, 2 gallons of prop wash, 1 VW bug radiator, 10 metric crescent wrenches. Inquiries contact box 8353.

JUST TO DO IT: Like to try creating NEW music? Contact amateur lyricist and creative person create band- down to earth musicians- no drugs. For fun, talent, night, experience. JON at 788-8902 OR box 5998.

→ Roommates

Female Roommate wanted to share new (2 bdrm, 2 bath) lakefront apt. at the Groves. Rent is \$250 per month; 1/2 off 1st month's rent. Must be neat and non-smoker. 1 yr. or 7 mo. lease. Call Marizza at 760-2151 or leave message at 258-7673.

House for Sale-Willow Run, 3 bdrms., 2 bath, family room with fireplace, dining room, living room, fenced yard with Jasmine. St. Augustine Lawn with sprinkler system. E. landscaped with azaleas, hydrangeas and crepe myrtle. FHA assumable. \$79,900. Call 788-3351 or ext. 6809.

Roommate Needed for Summer Sessions-Rent \$145 mo. plus 1/3 utilities. Female non-smoker only. Reply to box 5907 or box 6275.

Roommate Needed-Neat, non-smoker. To share great 3 bdrm on the beach. Close to school, fully furnished. \$150 mo. \$100 deposit. Call Jim at 252-5907.

Apt. for Rent-2 bdrm. Clean, across from beach and 15 min. drive from school. Located in good area. Call Flor de Maria after 3 p.m. at 252-0270.

House for Sale-3 bedroom, 2 bath. In prime Port Orange location (Foshore III). All appliances. 1450 sq. ft. living area, fenced back yard, 80 X 115 land. Built in Aug. 1988. \$88650 obo. Call Dee at 756-2377.

Room for Rent in 3 bedroom, 2 bath new house. You get master bedroom with attached bath. Only two people including you. All appliances, cable TV, washer-dryer. \$320 includes all utilities. Call 756-2377 for Dee.

Roommate wanted in 3 bedroom, 2 bath house. \$200 per month. Call Jon at 676-2909.

One bedroom Apt. for rent. Fairly new. Walk-in closet, full kitchen and bath, washer and dryer. \$325 mo. Central AC and Heat. 10 min. from campus. Contact Chris Logan at 239-0517.

Townhouse for Sale-2 bedroom, 2 bath, beautifully furnished, pool, washer and dryer, and more. 2 miles from ERAU. \$58900. Call Jim at 767-4267.

Roommate Wanted to share 2 BR, 2 BA riverfront apt. at Riverpoint Apartments on Beach St. (only 5 to 8 min. from ERAU). All deposits are paid on utilities and rent. Move in cost is only first month rent of \$210. Must be clean non-smoker. Call Mark at 258-7673.

Roommate Needed-Can move in immediately. Will have own bedroom and bathroom in new apartment. 3.5 miles from ERAU. \$240 mo., non-smoking senior student, male or female. No lease. Call Mark at 788-9776 evenings.

Roommate(s) needed for Summer A and B. Rent \$148 mo. plus one third utilities. Contact Correen at box 6275 or Jimmy at box 5907.

Roommates needed for Summer A and B. 3 bedroom, 2 bath, fully furnished house. Rent \$180 plus utilities. 7 miles south of ERAU just off Clyde Morris in Port Orange. Call 756-4246 for more details.

For Sale-IBM PC Convertible, \$600 obo. Call 672-4777.

For Sale-New Norrmex Military Fl. Suit. \$140 value for only \$80. Call 672-4777.

For Sale-NBC Shotgun Shell Reloader and supplies. Call 672-4777.

For Sale-Combat Harness, all G.I. issue. Web belt, canteen with cover, field dressing pouch, and 30-nd. magazine pouch. All good condition. \$35 obo. Contact Yourself at box 8908.

For Sale-Chinese SKS Battle Rifle. Brand new, only fired 40 rounds. 7.62 X 39 mm, semi-auto, folding bayonet, sling. Retail at \$400, asking only \$200. Contact Joe at 8908.

For Sale-Mini-14 Assault Rifle. Mint cond., 5.56 mm NATO, semi-auto., 3 magazines, sling, cleaning kit incl. A steal at \$450. Must Sell. Contact Joe at box 8908 if interested.

→ Personals

EVELYN
Congratulations! May you live happily-ever-after. Your a great friend, thanks for the help and insight.
LITHIUM CERIUM DYSPROSIUM

NORM!!!

M.
Hope you enjoy your vacation!

What does "I" mean?

BRIAN,
I'm glad to see that you're still around. Now try not to be a stranger!
JEN

PHOENIX (ANYONE!!)
Could someone explain how to work Television!
CONFUSED (C&O AND SPORTS)

How can one person (M) cause so many problems?

Just when you thought 8 G's were to powerful, along comes the all too deadly GEE FORCE!!

CHIRISSY M.
After you're through here at WEDT, do you wanna go out tonight.
KAHOSA

TO B.L.O.C.
Michael ODK G., John L. inclusive. Have 'em up boys.
FROM BIG BIRD AND HIS DEATH SQUADS

MDH,
Thanks for this term. I can look back years from now and say I enjoyed this one.
LOVE YOUR BEST FRIEND

G.N.
Happy Late Birthday!
I.D.

WANTED:
A new chiptank leader. We haven't seen Dave for a couple of weeks.

K.A.
Your room or mine? (Party)
J.D.

Happy Birthday Dino!
C.J.

Still no sign of Dave!

BINO,
Now is the deadline (No. 2) is past us, can't we do something fun?

People who have problems with people who ride pink Scooters can S*#@# off.

ANN,
You should be proud, you're the only one that's been able to turn me head over heels. Happy one year!
LOVE STEVE

OK, enough!

HEY HOLLYWOOD,
At the beginning of the semester you were so bored, but now it all seems you ever to is study!
CAPTAIN CHAOS

TO LITTLE MISS BEER GOGGLIS,
Open your eyes and get a move on, there are people waiting to be crucified out there!
BIG NOSE

LEM
I love you.

Happy Birthday Correen - 3 months early.

ANTNAY,
Here's another personal.

And the meek shall inherit the Earth. One meter wide by two meters long.

CHUCK,
Les knows what he needs.
DL OZ

DOOM,
Get a new haircut.
IRB EAST

DEAR TRACIE LEE,
Just wanted to say hi and surprise you. If you think this comy; well don't blame my state.
ANY CHANCES LEFT?

TONY
Llamas, llamas everywhere! Yeeeeeccc!
ORGASM

KELLI,
ACHHHHH!
BINO

CHUCK,
Put that anywhere!
DON "NO-SOUL" SIMMONS

TO READERS OF THE AVION,
Now that I've finished the paper, what can I do with ink-stained hands?

SENATOR CRANSTON,
I look to forward to every Senate Session. To watch you move with such confidence and power just curls my silk tie right up. Oh dear, what was I -er colleagues, or worst yet, our constituents thick of us? Who cares? I love you!
SENATOR BUMBERS

ABSOLUTELY ANONYMOUS

TOM
In loving memory of your fish. Bless it's soul!
D & D

TO THE RIP-ROARING BEAVER BANDITS
Maybe!

ODD,
If you ask me to...
NJS

PANTHERS
We still have our hopes up.
THE FANS

SWEET LOVER MUFFIN,
Only you and I know how much fun champagne can be. Let's to it again.
JUAN PONCE DILBON

ADW
Shall I compare thee to a summer day?
BMB

Here's a little something for you. Guaranteed to brighten up your day.
I-RAILS

BINO,
Ack!
JENNY

MIKE
No I haven't seen those 7X100 motorcycle pictures!
PHOENIX SPORTS WEIUNIE

AVION,
What do you think of having belching as a new olympic sport?
C.

Has anyone seen a pink moped around campus lately?

WAX, CLIVE, SLIDE, IT!
Great show Friday! Double Cross Room!
THE FANS

DOUBLE CROSS
The girl! Where's that Japanese dude? The girl!
AIR BAND

MTH,
Welcome Back!

JABSBO,
Glad the Radio show is going well. Miss you lots. You fell first.
CAFSBO

TRACY,
Miss you tons! Come and visit me soon. How's the company going? I grabbed it once for you; now you have to grab it once for me.
CORI

ANTHONY (NEW),
How are you? Haven't seen you around the room much! Thanks for the helpful grooming hints.
COREEN

BUCHSTEIN
What a night! Space Shuttles and Majik Markets! Is the library elevator next?
PB

LINDA K.
Can I have more PEZ? Oh please, just one more.
JUST SOMEBODY IN NEED

MARK II,
I saw Aartie around campus. She was looking for you and appeared upset. Oh, she so...
LOOKING OUT FOR YOU

DAN
Don't forget to come back to Riddle!
RENEE

Here's to the memory of Jastine Sullivan.

CHIP
Any good fat jokes lately, or should I say fat stories?
DREW

TO THE QUEEN OF THE MOON
Can I tickle your toes? (Your head will have to be attached).
THE BARON

TO THE WRIGHT AVIONICS GIRL,
The second effort is always better than the first. Thanks for effort # 2.
THE ONE WHO MOVED OUT

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COL^{ISEUM}

D A N C E C L U B



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Beyond Tommorrow.....

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