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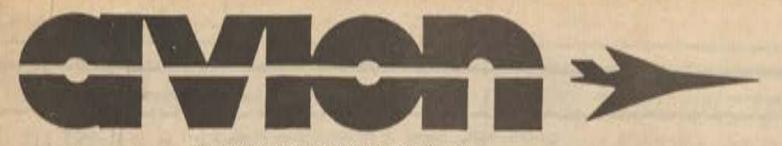
9-26-1990

#### Avion 1990-09-26 (B)

**Embry-Riddle Aeronautical University** 

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### Inside Section B:

Aeronautica..... B3 Comics.....B7 Notices......B5

# Space Technology

September 26, 1990

Volume 67, Issue 3

### Engineers begin underwater tests on Space Station Freedom

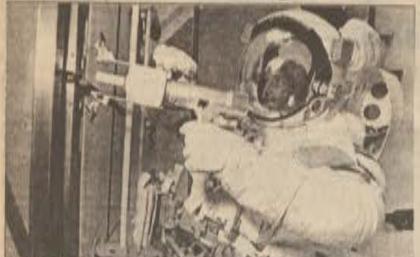
In 1992, the critical design

will be finalized...and

manufacturing

will begin.

weight affocation.



Hard at work ...

A NASA astronaut is hard at work, as he practices main tenance tasks with the aid of a robot.

cut the power needed for housekeeping.

Space station Director Richard Kohrs feels confident the team can revise the

Space Technology Writer

the space shuttle rockets.

tends to cut the weight of

the three components and

designs, Kohrs worked on the 1970 PDR reduction team and stated that the

Freedom situation is almost the same in nature. The PDR scheduled for December is a basic design review which will certify the design of the Center in Greenbelt, Maryland and is undergoing

The Space Station Freedom is being put on a diet

so that the components can be put into orbit by

During this phase the only hardware that is ac-

Kohr don't any major changes in the design for the Slight changes might be made in the Work Pack-

The Preliminary Design review (PDR) team in- ago one which is located at Marshall Space Flight

stage, manufacturing will begin. Both Lenoir and

Center in Huntsville Alabama.

They are planning to substitute inconel. which is a lighter but more expensive type of metal, for the stainless

steel that is used for the pressure tanks. This will save 3,000 to 4,000 pounds. The Third Work Package is located at Goddard Space Plight

Another slight design change that might be made tually built is prototypes. In 1992, the critical design is to the housekeeping baseline power system. The

will be finalized and once the design passes this baseline power to keep the station operating is 45 kilowatts (kW). Everyday sees reductions in the numbers of all four work stations. Some reductions can be made in the utility equipment such as the washers, dryers, dishwashers, and microwave. The designers made provisions to have these items running 24 hours a day. This will not be necessary in the operation of the station. They are also looking to reduce a 12.5 kilowatt converter to a 6 kilowatt DC converter which would be lighter and more ef-

> Richard Kohrs feels confident that the hours a day. This will not be necessary in the operation of

They are also looking to reduce a 12.5 kilowatt converter to a six kilowatt DC converter which would be lighter and more efficient. "We have a shopping list and we are working at all levels to look for candidate items to drive below each work package allocation," Kohra said about the current stage of the project.

### Western scientists to travel to Soviet Union

This region is home

to very sensitive

Soviet military

installations ...

by Marianne Michaels

Space Technology Editor Scientists from the Jet Propulsion Laboratory (JPL) and the U.S. Geological Survey are joining a team of Soviet scientists to study volcanoes in Russia's Kamchatka Peninsula. This is one of the most active and least understood volcanic regions in the

world. This will mark the first time that

western scienhave been allowed in the Kamchatka region sinco. the Second

World War. This region, a remote area, is home to very sensitive Soviet military installations and has discouraged Soviet scientists from studying the volcanoes

in the area. limits to Western researchers until

This program will better define the volcanoes located in the Pacific's "Ring of Fire". This is a region of volcanoes and other tectonic features located along the edges of the Pacific

The boundaries include the western coast of North America, the Alcotian summer.

Islands in Alaska, the Kamchatka Peninsula, Japan and New Zealand. The volcanoes are very dangerous

They are often seen ejecting ash into the stratosphere along the north-

east coast of Asia. The nearby area is looking into

studying the potential hazards caused by the volcanoes.

The American team is not only participating in

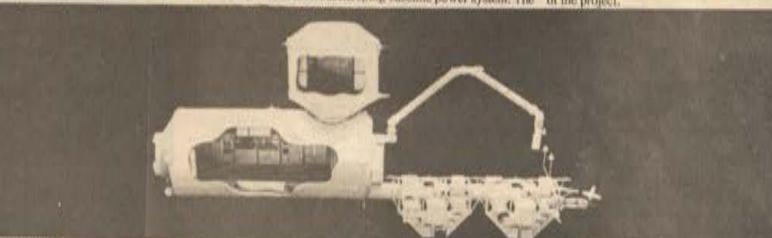
this effort, but they are also going to participate in joint field reconnaisвапсе шар-

ping of the region.

They will use aircraft supplied by the Soviet air force and Aeroflot.

of interest for a proposed joint air-This area has also been kept off borne and orbital mapping of the canically active regions located in the

> The Soviet team will visit the U.S. at the beginning of next year for similar field work in Hawaii or Oregon. They will later return to Kamehatka for more extensive joint field work in the latter part of next



The Japanese Experiment Module (JEM) is one of the many scientific programs that the Japanese are working on.

### Japan's space program moves into the 21st century

Space Technology Writer

The Japanese plan to put an experimental space taboratory in space around 1998. JEM. (Japanese Experimental Module), is to be attached to the Space Station Freedom, JEM will be about 10 meter in length and will have a volume of 140 cubic The mapping will identify the areas moters. The pressurized module will have a work area for material processing and life science experi- the Soviet Union. They believe that the future is ments. There will also be an exposed facility for Kamchatka area volcanoes and vol- other experiments. These activities include transferring materials, equipment and construction of two space shuttle missions. The first flight will transport the pressurized module and the second flight will bring up the exposed facilities and the logistics module. This is only one of many space. projects Japan has planned for the future. Japan only spends 1.1 billion on space research annually which is a small amount compared to the U.S. and

more on the Space Station Freedom than on reaching the Moon or Mars.

Japan's focus Is

tired of the exploration of space and will triple their investment by the end of the decade.

Japan's focus is more on the Space Station larger structures in space, JEM will be launched on Freedom than on reaching the Moon or Mars. The countries view centers on long term human exploration through Freedom and JEM, JEM will primarily be life-science research. This is not the only space station which Japan is working on. They also have plans for a Japanese Manned Platform. Five contracts have been released for the study of this independent space storion. The station will be these plans a reality

transported into space by the H-2 rocket which is still in development. It will take about two years for assembly and five H-2 rockets to complete the assembly. This station will focus on developing the technology for long range human exploration and servicing satellites in low Earth orbit.

Japan has also started missions to the moon. A small Muses-A spacecraft was sent into orbit to release a small transmitter probe. The mission wasn't a total success because the probe failed in

The Japanese space industry gets help from the private sector. Large construction companies such as Shimizu and Ohbayashi attend space conferences. Shimizu have plans for many other space projects such has a Earth-orbiting hotel. A thinletank called Future Technology Institute is compiling plans for a moon base. Hopefully, Japanese private industry will make the investments to make

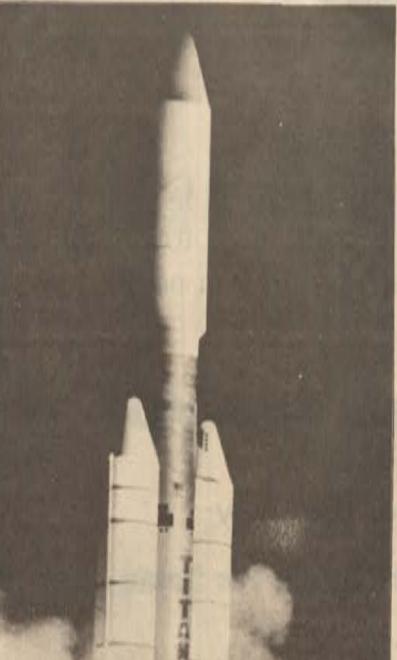
### Space News..

Columbia delayed again... The Space Shuttle Columbia suffered another delay last week. The delay was caused by another fuel leak and the faunch of Columbia has been postponed indefinetly until the leak has been fixed. Focus will now be turned to the launch of the vital Ulysses probe aboard the Space Shuttle Discovery. The launch of Discovery has been scheduled for October 6 at 7:35 a.m.. The launch window extends until 10:05 a.m. A Hydrogen Leak Investigation Team has been organized in order to locate and solve the hydrogen leak problem on the orbiter Colum-

Bruce McCandless retires,... Bruce McCandless has announced his retirement after 24 years with NASA. The retirement of Bruce Me-Candless will be hard on NASA employees. He has logged over 5000 hours in jet aircraft and logged 312 hours in space. He was assigned the position of mission specialist on Mission 41-B launched February 3, 1984, This mission offered McCandless the right to be recorded in the history books. He was the first person to check out the Man Maneuvering Unit (MMU) and he also was the the first person to fly untethered to the space shuttle in free flight. This mission was the first to land on the runway at the Kennedy Space. Center on February 11, 1984. He recently flew on Mission STS-31 deploying the Hubble Space Telescope into space. He was on standby in the event the Hubble Space Telescope failed to deploy properly; if needed he would have had to perform an extravehicular activity (EVA). He would certainly be missed by his fellow employees.

Research grants awarded to universities... NASA has awarded research grants to two universities. The awards were given in order to develop teacher training courses that will enable teachers to incorporate agrospace topics into the classrooms. The schools, Bethune-Cookman College, Daytona Beach, and Rensselaer Polytechnic Institute, Troy, N.Y. will each receive a \$75,000 grant. The Rensselaer Polytechnic Institute will work jointly with Russell Sage College, Troy, N.Y. It is hoped that by educating teachers in the aerospace field, and they will in turn pass on the knowledge to the students.

NASA announces first hispanic woman as astronaut... Ellen Ochoa was selected from 100 applicants in January 1990 as the first Hispanic female astronaut. She worked at the NASA Ames Research Center as the chief of Intelligent Systems Technology before being selected. She worked on speeding-up computers sent into space using her doctorate in electrical engineering (optical processing). She applied for the astronaut class of 1987 but was not accepted at that time. Many people who have applied this year had put their applications in as long as 10 years ago. She reported to the Johnson Space Center in July for her initial astronaut training.



Spectacular...

A Titan launch vehicle carrying a classified payload, was delayed after an attempt onSunday at 12:45 a.m.

### Pilots travel the world in balloon

in exchange

by Marianne Michaela

Space Technology Editor

Three people, an American pilot, a Russian cosmonaut and a British entrepreneur will attempt the world's first trip around the world by balloon. This will not only set the world distance record in a balloon, but it will also aid researchers at NASA and the Soviet space agency Glavkosmos learn more about the jet stream.

The 52 million belium balloon will be carrying a Communications and package of instrunavigation will be ments to study provided by NASA that turbulent and Glavkosmos channel of nir where airliners for scientific data ... travel. The balloon will ride the jetstream at an id-

titude of 7 miles. The crew will see 100 miles per hour at altitudes belarge pieces of pollution caused by surliners.

The people who will be riding in the balloon are: Larry Newman, is a world-record balloonist and has crossed both the Pacific and Atlantic oceans by balloon.

Vladimir Dzhanibekov, 47, is the world's most experienced cosmonaut with five space flights on his record. He is a major general in the Soviet air force and considered a very good pilot.

Richard Branson, 39, founder and chairman of a London business ompire including Virgin Atlantic Air-

ways and Virgin records. Allied Signal Aerospace Corpora-

tion, a major sponsor, will be providing \$700 million worth of equipment. Other sponsors include American West Airlines and ESPN.

Communications and navigation will be provided by NASA and Glavkosmos in exchange for scientific data that will be relayed by satellite from the balloon to the ground. The crew will take off from the

Loral Airdock in Akron, Ohio in

November, wear's nermit-ting. It should take the crew 12 to 21 days to cover 18,000 to 22,000 miles again depending on the weather.

They will cruise at a speed of 75 to

tween 35,000 and 45,000 feet. The gondola, a pressurized, com-

puterized 24-by-10-foot capsule, tethered to a translucent, 140-foot diameter balloon.

The total height will be more than 300 feet tall.

The countries that the balloon will Ily over is Newfoundland and the United Kingdom, Europe and the Soviet Union, north of Japan and across the Pacific, then across the United States before landing in east

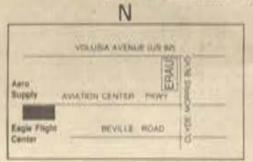
The crew hopes that this joint venture will convince NASA and Glavkosmos to launch more cooperative ventures like a joint mission to Mars.



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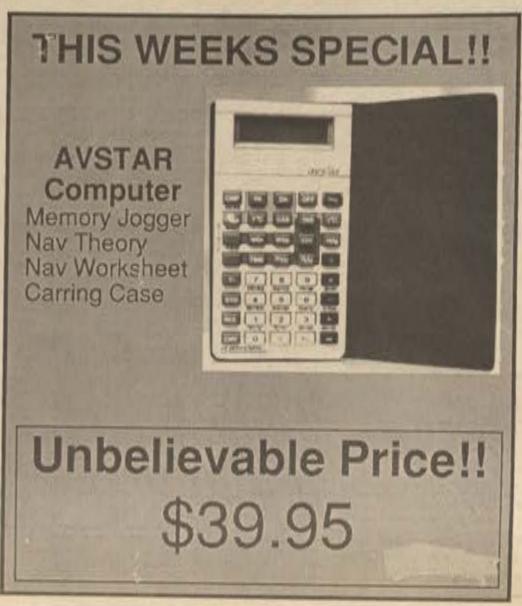
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### First MD-80 makes last flight as test aircraft

twin-jet comes to an end

It made its first flight.

by Hoyt E. Brown Aeronautica Editor

As any pilot will tell you, the best landing is the uneventful landing. And so it was on a warm August morning when a twin-jet airliner sailed smoothly out of the skies and touched down routinely on runway 30 at Long Beach Municipal Airport, But this was more than an uneventful landing. This ended the final flight of one of he busiest test aircraft in aviation hisbry. The airplane was the first MD-O, commonly known as Ship 909, flie prototype for McDonnell Douglas' popular family of short-tomedium-range jetliners still in didn't want to roduction 10 years after their introauction in 1980.

The final flight of Ship 909 was less than 250 miles and lasted just 50 minutes. It flew from the airport at Mojave, California, near Edwards Air Force Base, to Long Beach, closing out a flight test career that covered 2,094 flights and 3,064 hours and instuded virtually everything from high and rate landings and stalls to trials of dvanced engines, cruise perforrifance, avionica development, and customer demonstrations. When it axied to a position on the flight ramp at the Douglas Aircraft Co. plant in flong Beach, the aircraft was back where its flight test career began near-(v 11 years ago.

Pilot Bill Jones, first officer Gary Bear" Smith and flight test engineer flight in October 1979, it became a

Bob Tecau flew the plane from permanent flight test aircraft. Mojave to Long Beach on its last flight on August 8,

When the storied plane rolled to a stop on the company's busy flight ramp, the crew was joined by H.H. "Knick" Knickerbocker, John Lane and Virginia Clare, the crew on Ship 909's first flight on October 18, 1979. Naturally, talk got around to the final flight and the last landing of the aircraft. Bill Jones, who was at the it was to be permanently grounded, "It began a busy schedule of avionics characteristics. was a floater, it

The long test flight history come down. of the original MD-80

First officer Smith said that on takeoff the "accelerated like a rifle shot, and

same feel as in the early days. Nothing had changed." Ship 909 has spent its entire life as

a test aircraft, a workhorse that supported aircraft production, development of product improvements, and evaluation of customer-unique configurations for the MD-8O family.

The prototype MD-80 was the 909th aircraft to come off the Mc-Donnell Douglas DC-9/MD-80 twinjet assembly line. Shortly after its first

Knick Knickerbocker, pilot of Ship 909 on its first flight, was project test pilot during the certification phase for the MD-8O. He said the plane "flew really well from the start. It was an honest plane, you could count on it." Looking back at the busy flight test and certification schedule for Ship 909, he also said, "We put the aircraft through the wringer."

Following nearly a year of duty in controls for the landing at Long Beach the original MD-8O flight test and Airport, said as if the plane knew that certification program, the aircraft eye-catching showpiece with special

system improvement and cer- an old friend." on the same runway where tification, and

the plane flew 1,660 flights, for a total daily flight demonstrations. of 2,440 flight hours.

flight of Ship 909 and MD-8O project end on the same runway where it pilot during the 1980s, recalled the made its first flight in 1979. John airplane. "I was impressed with the Wolf, vice president and general handling qualities and stall charac- manager of McDonnell Douglas' teristics of the plane ... and how quiet it Iwin-jet program, said, "Ship 909 may was. It was a pleasure to fly it."

barked on a new and exciting episode portunity to evaluated a wide range of in its history. The aircraft was ferried innovations and product improvefrom Long Beach to Mojave where it ments for the MD-80 family."

was reconfigured to test the ultra-high bypass (UHB) engine technology Mc-Donnell Douglas was evaluating. The left-side powerplant was removed from 909's aft fuselage, to be replaced with a prototype UHB engine while the standard jet engine remained on the right side.

The installation on Ship 909 required the rework of the plane's structures and systems. The combination of a regular jet and an advanced UHB engine made the plane a unique and

"It was an excellent flying ment and cer- airplane," said Phil Blum, project tification, product pilot for the UHB demonstration improvement, phase. "It did yeoman service for us. MD-83 develop- We're all sorry to see it go, it was like

Blum and his crew flew Ship 909 customer pilot across the Atlantic Ocean to the 1988 training. From Farnborough Air Show in England, when we were airborne it had the August 23, 1980, to October 16, 1986, where it became the highlight of the

> So the long test flight history of the John Lane, first officer on the first original MD-80 twin-jet comes to an have taken its last flight, but it was of In October 1986, Ship 909 cm- great service to us, giving us the op-



Last flight ... This airplane is the first MD-8O, commonly known as Ship 909, the prototype for McDonnell Douglas' popular family of short-to-medium-range jetliners still in production 10 years after their introduction in 1980. The crew that made the last flight (left) is met by the crew of the first flight (right).

# MD-11 test flights move toward an F.A.A. certification near year's end

By John McDermott Staff Writer

recently completed the longest flight ever made by a commercial tri-jet, covering 9,080 miles in 16 hours and 35 minutes. The flight was part of a three day endurance test to evaluate cruise and navigation performance switched from North to South at exnear and over the North Pole. The flight was conducted on MD-11 ship four as part of the F.A.A. certification flight test program.

Four legs were flown, beginning and ending at the McDonnell Douglas flight test facility at Yuma, Arizona.

The first leg was to Seattle, Washington then on to Anchorage, rating of 61,500 pounds. Alaska for an overnight stay.

to the North Pole and made four pas- can carry up to 410 passengers The McDonnell Douglas MD-11 ses over the geographic North Pole and one of to the side.

reference and flight management computers performed without error and the independent displays the end of this year, the first five cusactly the same time.

Pilot workload was evaluated on the return legs to Anchorage and Scattie with last minute runway changes. MD-11 number four is powered by General Electric CF6-80C2 engines, which is the highest thrust engine commercially available, with a top

The MD-11 is equipped with an ad- operating economics.

The following day the MD-11 flew vanced digital flight deck system and F.A.A. certification is expected this fall, and 379 orders have been This difficult test of the inertial received from 32 customers,

Initial deliveries are expected by tomers are American, Delta, Finnair, Korean Air, and Swissair. A large Irish leasing company, G.P.A. has firm orders for 13 and options on 12 more MD-11's.

A larger version of the MD-11, the MD-12X is also under development that would compete with the 747-400 in payload and range, with superior



The McDonnell Douglass MD-11 recently completed the longest flight ever made by a commercial tri-jet, covering 9,080 miles in 16 hours and 35 minutes. Initial MD-11 deliveries are expected by the end of this year.

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#### Letters

(bontinued from page A2) do their jobs, but they need to work

a conjunction with the students to our campus. When people see suspimake this university a better place to receive a "higher education.

It doesn't matter where I go, I hear about Embry-Riddle. I made the choice to go to school here and I am not sorry that I did. I am sure I will receive a fine education, I am getting tired of defending the school. I shouldn't have to. Name withheld

Crime

Continued from page 1) the correct one for the escort according to Kevin Mannix, Director of

Safety, "we do see this as an opportunity to show the Embry-Riddle community that crime can happen on cious incidents occurring on our campus we encourage them to call the security office and we'll in turn investigate it."

When the Avion asked Kennington if he thought he might know someone that had something against him, he replied, "I don't know anyone who would do something like this. I'veonly lived in Daytona since the beginning of the semester and don't really know alot of people yet."

Kennington transferred credits to ERAU and is now a sophomore in the Aeronautical Science Program.

。 一定的特別的特別的特別的特別的特別的特別的特別的

It seems as though the thieves arrived sometime between 7:15 a.m. and 8:30 a.m. and acted as though they were changing a spare tire so as not to draw attention. Apparently there were no witnesses because the people who might have seen it happen did not report it to the safety department.

Mannix continued, "At this point we don't have any suspects...we are real disturbed that this happened. Nobody saw anything."

If anyone reading this article might recall something please contact the safety department. All students are advised to lock their doors and keep their eyes and ears open, it seems as though ERAU might not be as safe as we all thought it was.

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#### **FAA Research Contest**

Graduate studies and Research is pleased to announce an Aviation Research Program for Graduate Students. Awards of \$5,000,00 will be made to five graduate students for a research paper on aviation policy issues. This award program is sponsored by the Federal Aviation Administration and is intended to stimulate thought, discussion, and research by those who may become the future managers and decision makers in aviation. November 1, 1990 is the deadline for receipt of applications. Please contact the Graduate Studies and Research Department, located in A207, ext. 6319, if you desire additional information or an application.

#### Student Leadership Program Accepting Applications

Applications are currently being accepted for the Spring 1991 Embry-Riddle Aeronautical University Student Leadership Program. This program is designed to assist student leaders in their potential leadership skills.

This is a unique leadership program, with its main focus on providing the opportunity for student to learn and application, Deadline for applications is Nov. 2.

develop skills. With those skills and knowledge they can make a contribution to Embry-Riddle, the student body, their organizations and the community.

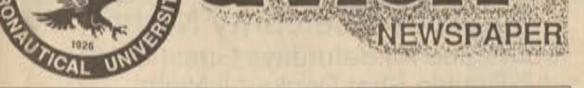
Through direct participation in on-campus activities and seminars, student become acquainted with different areas of leadership, Topics discussed are: Delegation, Assertiveness, Ethics and Values, Leadership Principles, Stress Management, Conflict Resolution and Community Involvement. To round out their experiences, participants are also exposed to different facets of the University with departmental presentations by: Registration and Records, Admissions, Public Relations, Academics and Institutional Research.

This is an intensive semester long program that meets twice a week, every Tuesday and Thursday at 3:00 pm. Minimum requirements for participation include: a 2,0 cumulative G.P.A., you must have achieved at least sophomore status (27 hours completed) and you must cofftinue to be enrolled the semester following your participation in the program. Applications are screened by a University committee and a personal interview is used for final selection. Twenty-five students will be selected to participate.

Stop by Student Activities for more information and an

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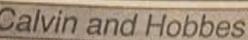
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HA! WHO NEEDS

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A BETTER

SCORE THAN

YOU DO.

THAT'LL SE THE

DAY!

DON'T TRY TO

COPY MY

ANSWERS

THIS TIME

TILL TELL

I HOPE THE TEACHER CALLS ON ME! I HOPE I GET TO DEMONSTRATE A PROBLEM AT THE BOARD! TIL IMPRESS EVERYONE!



KNIKE

25 CENTS I

GRADE

GET A HIGHER



LIKE TO INCREME

THE WAGER

MR BIGMOUTH

by Bill Waterson





Far Side

MAN, THIS IS GOING TO BE GREAT! NOT ONLY AM I GOING TO ACE THIS QUIZ BUT I'M GOING TO WIN A CHIRALD





YOU MIGHT AS WELL

GIVE ME THE QUARTER

MUMILIATION LATER

NOW AND SAVE

YOURSELF THE

DONBIE

AND MAKE

'Hey! You! ... Yeah, that's right! I'm talkin' to you!"

THAN SHE DOES! A SMALL RED









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"A Louie, Louie . . . wawaaa . . . we gotta go now . . .

"Hi . . . Hi, Miss Collins."







PLANET S. BEING SMALLER.







"Oh no, Elliott! Why? ... Why? ...."

Mister Boffo

DISCOVER WHAT HAPPENS WHEN TWO PLANETS COLLIDE SPACE

NA Jan

MAN SPIT DROPS ANCHOR!

### by Joe Martin

Mother Goose and Grimm

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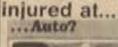


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FOR SALE: 1982 ESCORT L, 4 dr., Auto., lean, gold, pw st/br, low miles, air. 1900.00 OBO. Call James at 253-2791.

1084 FORD RANGER XLT, V-6, st, ac, cc, as, ph. am/fm, fiber glass topper, runs great, bugbed, dual gas tanks, 89,000 miles 2995.00 Oll O box 6068.

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1981 YAMAHA 750 Secu. Runs great. Must #II \$1300 c.b.o. Coby 756-7866.

BW9 CHEVY CAVALIER Z24. Dark Hed.PS, PL AM-PM stored w/cassette 5 speed, AC, cruise, digital dash, excellent condition, runs great, like new call 760-0310 ask for line or Jeff.

#### Cycles for sale

1987 KAWASKAI ENDURO, 100ec, ligarillent condition, Only 6,500 miles, Garage keep, Asking \$875.00, Call 756-

SCHWINN LETOUR: 12 speed, mens, shire. Excellent condition, \$150,00 Call Andy, 239-6407.

1985 RED ELITE 150sc Scooter with 2 fullmets, trunk and windshield \$450.00, 13,000 miles or 1981 Mercury Lynn, Excellent Condition, 56,000 miles \$1,000.00. Call 274-4151 and leave villettage.

YAMARA FI 1100, 1985, showroom dischilos/garage kept \$2600.00, 9000 miles \$ belowta, Steve 756-7915.

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EURNTTURE, Bicycle, and pets for sale. All prices negotiable . Must golf Call Eric at

FR SALE-Weight \$50, Beach Cruises \$45, 12 speed bake \$75, contact Matt at 255-3687 or Box 6767.

SALE-ES 305 BIOCIK FOR Thermodynamics \$50, write to Box 6637 if Interested.

POR SALE: Samung VCR \$100, and table and lamp \$25, donn size refrigerator \$75. Cell Scott 239-0318 before 4:00 pm. After £00 have measage.

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FANATIC 100 Sail board and rig and rack. \$250.00 (priced to sell fast) Contact Kirk at 253-8479 after 6pm.

SCHECTER STRAT Guitar, Red w/maple neck, screams. \$250.00 firm. Ten Speed, mixed breed bike, works good, \$25,00 OBO. Octagym - Bight work-out machines in one, \$50.00 OBO, Phone 761-8486

FOR SALE: 1968 Dune Buggy - Body w/removable hard top. Engine runs but needs re-wired. May trade - make offer. Out of state title, \$500,00, call ext 6926 before 5pm or 255:5926 evenings.

FOR SALE: Full size bed - \$100.00 Excellent condition. Call 788-3327 or exi. 6926. TV stand or microwave stand. Excellent cond. \$25.00 ext. 6926 or 255-5939 evenings.

COMPUTER KEYBOARD for sale, keytronics, 101 keys. New, for IIIM XT/AT or compatibles. 1/2 price. I have two and only need one... Call x6722 or 761-9384.

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FOR SALE: Sony Discount (Portable C.) Player), stemo book-up capability, brand new, \$150.00 negotiable. Brand new Roy-Bans \$30.00 OBO, Contact Mike 238-0061.

FOR SALII: 19" Color TV Hinschi stemo, pots and pans, twin bod (louded), twin mattress. Call 756-8535.

FURNITURE FOR SALE: \$200.00 1 love seat and 3 seater sofa, \$50,00 I twin size bed, \$100,00 I new architects dock and chair, Call Alma at 253-0427 or (407)626-

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FOR SALE: Security shade for rear batch area. Pltz 82-90 Camaro or Firebird. New in box, never installed, with all hardware or ERAU Box 8493.

FOR SALI: Four channel model aircraft with true Futaba six channel radio, Only been flown a couple of hours and has a menforced nose. Six channel Futaba comeswith six Futaba servos that have never been used or placed in an aircraft. I am no longer interested in the sport and need the money. Excellent for the starter who wishes to upgrade in the future! Asking \$560 neg. Call Jason 230:3073. The sky can be yourd.

FOR SALE Weight bench with metal weights, \$110 o.b.o. call 239-9536.

1986 APPLH IIC Computer, 2 diaks, color/fetter quality printer, color monitor and more. Asking \$750 call 253-9285.

FOR SALH: Sterling Silver Jewelery: BELOW besoriets and necklaces. WHOLESALE prices!!! Also many watches for sale (many different replica watches). Call 252-9378 or drop a note in Box #1312.

POR SALE: Amiga 2000, removable hard drive, monitor and color printer- loads of other goodies, Olympus SLR, Sega genesis, NES, Power glove, Sony 8mm Portable VCR GOOD PRICES: PHONE FOR

ALPHA WIND SURPER AND HARNESS. MUST SHR \$350 o.b.o. out Jack 255-1738 best if after 5:00 pm.

ALPINE car stereo, model 7282, 2 months old. AM/FM cass., auto reverse SCC Hrad. 32w, box style faceplate, \$150 c.b.o. call Mark 257-3149.

WANTED: Jet Pilots, goys or gale to join Jet. Ski clob, contact Tim box 3221.

HAVE YOU EVER BEEN SCOUTING? Would you like to experience Scouting Plorida-stlye? If you are interested in helping a local unit, the OA, joining an Explorer Post, or just want to be involved in the community, then call Duane at 756-2594

DETAILS feave message on answering machine (760-3607).

DORM SIZE "cube-fridge" \$30 cstl Mike at 254-4935, or drop note in Box 2293.

WIZARD BUSINESS COMPUTER FOR SALE: As reviewed in last weeks Avion, comes with 32K RAM and 8 language translator data card. Like new, in original box with all manuals. Comparable cost when purchased of over \$300. Will escrifice puckage at \$230 firm. Contact Jason, 239-5973, for more information.

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> POR SALE: Steeper sofa 570, cockinil table 30, 2 and tables \$10 and \$6, dining talds \$10, 4 chain: \$12, 2 bus chairs \$5 auch, 2 TV stands \$10 and \$5, storeo cabinet \$10, chair \$10, ten speed bike \$15, apple 2 plus computer system with primer \$200, call Man at 760-8281 for details.

#### → Roommates

ROOMMATE NEEDED: To share bedresen in 2 bed/2 bath Apt. \$165 mo. plus 1/3 util., non-amoker, 2 miles to school, washerAfryer, microwave, C-TV, Dishwasher, pool, etc.

ROOMMATES WANTED: couple, both students, looking for quiet person or couple to share a house with us starting Oct. 15 can help thoose house, single person 1/3 is. expenses, couple 1/2 expenses. If interested -OY please call 253-9268, ask for Chris or leave

TWO PEOPLE needed to share three bedroom, 1 1/2 bath house. 1 mile from ERAU, 5150.00 month plus 1/3 utilities, \$100.00 deposit, no lease. Panially fumished, female or male, non-smoking, clean person, who likes to pany at other people's house. Call Christins at 239-9771 or ERAU #7774.

ROOMMATE WANTED: for 2 bedroom Apt., \$195.00 per mouth only 3 miles from ERAU. INCLUDES: - TV cable, Daily Newspaper, A/C, Security, covered parking slot, CLEAN. \*Pully furnished (or not), no deposits plus 1/2 electric and 1/2 phone and long distance available. Sept. 15, 1990. Don't delay, call 788-1656 anytime.

HOUSE FOR RIDIT, 2 bedroom, 2 bath, 2 car garage, fully furnished, 3 miles from school 5600 a month. Call Mike at 756-

ROOMMATE WANTED-2 hed room apt. \$192.50/mo, plus 1/2 stillities, only 2 miles from campus, non-smokers, please contact Matt at 255-3057 or Box 6767.

TWO BEDROOM in house for nent, Garage, Washer/Dryer, TV, VCR, All scilities included for \$250.00 ea., Don't wait, call Tom #673-1473 anytime.

ARE THERE ANY ARROW MEMBERS OUT THERE? The local chapter of the OA is in need of some older members! Please dial 756-2594 after 5 pm. Ask for Doans. Seek the knowledge, share the spirit.

call Paul 254-0696. NHED YOUR PAPERS TYPED? Give me a

INDUSTRIAL KEYBOARDIST looking for

band or just to play. D.M. N.R. 2.4.2, etc.

call Lener quality, spelling and grammar checked, \$1,50 / page, call Mass at 255-3057.

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#### + Personals

HOW many surrealists does it take to screw in a lightbulb? PISHI

YO GREG, I thought you quit that job!

HAPPY BIRTHDAY LISA THE BTHS BOYS

One male with blue eyes, about 57". Must be able to carry on intelligent conversation. play tennis and not be a zore loser, and perform certain tasks such as wrestling chazing, catching, kissing, hugging...etc. Please respond in the next issue of the Avion.

Want to play Canasia? MARTHA

MA PRINCESSE

Merei besuccop pour l'ete grand!! Maintenant nous dois travailleur. Mais, nous sommes etat s'aconcer!!! JE T'AIME 7656

I know what you really want, you say Jack be nimble, I'll say Jack be quick and we'll do

PHANTOM. You are accepted! DIVERSIONS EDITOR

HANNAH.

Finally, AARREGGGHHII (Scratch, scratch). I've missed you so much and I'm glad you decided to come down. I love you always!!! SMOOCHUS

who worked in shipping. You said you wanted to get rid of the fencing equipment & Dumby you found. I could now use them. Contact me, 7717. DUTTEY

ACKT 90-91. Let's do it! DAVE

Happy 21st B-Day! Stay away from my Margarita Glass11 A.H.

THUMPER SNUGGLEBUNNY(GOOGIE), h's great that for once the noise is coming from my side of the walls. Had any sleep

SLEEPY THE SKINHRAD

GILMO, I hope you come down hore soon. By the way, your two weeks is almost overil! Miss

DO NOT WORRY, Never fear; If I am shere, Then film is near. CAPT. CHAOS

WARRIOR

NOBODY expects the Spannish repetition! Spam, Spam, Spam, Spam.

JUST when you thought it was rafe to go back in the dormal JAWS (THE LANDSHARK)

Yes, I do. Thanks anyway. By the way it never hurts to identify yourself. RHD

Can't wait till our weekend.

CHARLIE BROWN.

FEMALE ERAU student looking for Riddle male, interested in country music and dancing for dence partner. You don't have to be good at dancing, just willing to learn. Reply to BOX 6372

SPECIAL K. Thanks for the kind help you've given me this past week.

BONJOUR CRIS. Merci Besseoop pour ton gentil message.

Quelle suprise!! Ta princess qui t'aime.

IPUNCHI BUG PINKI

Clutched in the throns of battle, you supported me. Thanks. Keep up the good work and stop by and say hello sometime.

PEEBLES ON THE BEACH

Wonders never cease as the time passes by. I wander and wonder looking for the paradian that exists in the heart of people in love. I look up and see your shadow in the clouds, I sit in class and smell your perfume, knowing we are but two stars in the universe, each attempting to reach across to the other and comfort thee. To fill desires, keeping patience, and knowing with each passing moment, wonders abound. RTO

DAVE Stop Streaming! A CONCERNED CITEZEN

D-ICE

Thanks for the cut. You'll get a commission: off of everything I make. THE MODEL

DANIELLE, Want to go dencing?

TM NOT HIM

SANDY. Would you like to go to the movies sometime? Let me know.

THE ONE WHO'S NEVER HOME

LOVE GUMBI

This wing is the best. Thanks for being putient while I was sick.

Get done by Saturday next time!!!!!!! THE AVION STAFF

Don't worry. Your machine will get fixed before the decade is over. TREKY

Three bours, I'm impressed. IN AWE

TO CARL Your hair is golden brown and smells like a

WANDA

Thanks for the 'mais tape, let's see them soon (you too Alison). II MAN

THE FABULOUS FIVE Thanks for one of the most interesting weekends of my college career. Wait until Key West, Buck-naked on the edge of eternity. BC, don't changes caracter while EG is driving. SATAN'S LITTLE HELPER

What happened to the Beatle's music?

JOHNNY.

Your fired!!!! Jeff Doian AND EVERYONE ELSE

LAURA,

Don't get stressed and if you do, there's always my roommate. BMD ESQ.

LOGAN,

Long lost friend, interested in trying again. See you at broadcast meeting thursday.

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