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SPACE TECHNOLOGY

Galileo prepares for return visit to Earth on way to Jupiter December 8 flyby will bring Galileo within 200 miles of Earth

By Arle Motter Space Technology Reporter

Two years ago Galileo flew by Barth. Next month it will return. The second Earth flyby will be Galileo's last planetary encounter until it reaches Jupiter in Inte 1995.

Galileo was launched on October 18, 1989 aboard STS-34 (Atlantis). It's primary mission is to explore the gas giant Jupiter. The original trajectory was a direct flight that would have placed Galileo in Jupiter orbit in two and a half years. Due to fuel and data considerations, the direct flight was scrapped in favor of a longer duration VEEGA trajectory. VEEGA stands for Venus-Earth-Earth-Gravity-Assist, Basically, passed within 1,000 km (620 miles)

widening orbit. Due to it's trajectory, any other spacecraft before. Galileo will have the opportunity to send back data concerning the Moon, our sister planet Venus, and several Jovian satellites. In addition, Galileo will relay information about two asteroids, Ida, and Gaspra. Galileo's first Moon encounter occurred on December 8, 1990.

The Venus flyby was on February 9 and 10, 1990. Galileo checked for lightning activity in the clouds of

Next stop was the asteroid Gaspra, Gaspra spans a diameter of 16 km (10 miles) and is on the inner radius of the asteroid belt. The probe arrived on October 28, 1991, Galileo Galileo picks up momentum by of Gaspra at a relative velocity of 5

After Galileo's Gaspra flyby, it has proceeded to its second ren- will approach at a relative speed of 8 dezvous with Earth. Galileo will photo survey both the Moon and Earth, Because of Galileo's unique angle of flight over the Moon, it will be able to photograph the northern polar region of the Moon. These photographs could prove the existence of water trapped in the polar Moon caps. Galileo will also map the far side of the Moon using infrared instruments. This is the first time that infrared mapping of the far side has occurred. In addition, Galileo will analysis the geocorona spectrum, and the magnetic tail emanating from the Sun.

Galileo's second asteroid

swinging past Earth and Venus in a miles per second. This is closer than 1993. Ida spuns a diameter of 32 km (20 miles) and resides on the outer radius of the asteroid belt. Galileo miles per second and will pass within 1,000 km (620 miles) of Ida.

Io, one of Jupiter's moons, is Galileo's finally encounter before its primary mission. Io will be used as a gravity brake" to slow the probe for orbit around Jupiter. Galileo is scheduled to arrive at Jupiter on December 7, 1995.

As Galileo orbits Jupiter, it will also study the Jovian moons, During its pass through the Jovian atmosphere at an altitude of 200,000 km. (125,000 miles), Galileo will measure temperature, dust concentracounts, and plasma waves caused by encounter will be on August 28, Jupiter's violent lightning storms.

(00 DAY) AUG 29, 1993 PRODUCELLASII **JUPTITIES**

tions, high and low energy particle. The December 8 gravity assist will increase Galileo's speed to 94,760 mph, relative to the sun.

AB roof to be repaired by

By Ronald Hess **Humbers Murager**

International Steel Incorporated,

ifying High Bays one and three, and providing additional clearance height to the facility's north transfer nisle door.

Other alterations include adding from Orlando, Florida, has been girder reinforcements to support awarded a \$6.6 million contract to new overhead cranes and building apgrade the Vehicle Assembly an interior platform to provide Building (VAB) at Kennedy Space access to and eatch debris falling Center. These changes involve mod- from the roof of the building.

work will be performed in several phases scheduled over the next four ears. The modifications will be staged during designated time periods to prevent conflicts and interference with space shuttle hardware

The High Bay work involves upgrading the integrated workstands

Under the fixed price contract, the which are currently used to assemble the four-segment Redesigned Solid Rocket Motors (RSRM). The changes to the existing equipment will allow processing of the space shuttle Advanced Solid Rocket Motors (ASRM).

The newer ASRM incorporates an improved three-segment design. The field joints are at different heights, which requires the addition of access platforms at the 80- and 124-foot levels of the 183-foot-high work-

The existing three VAB high bay platforms used to access the solid rocket boosters have a total of eight levels that nearly surround the cylindrical boosters. These levels will remain in place so that work on the current RSRM booster can continue.

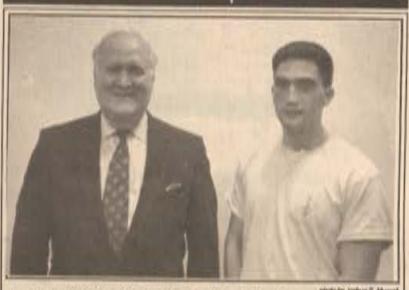
The ASRMs will have a radius that is two inches wider than the RSRMs. Two inches will have to be removed from the inside platform edges at each level to allow clearance for the new rocket boosters.

The north door to the VAB transfer aisle is high enough to allow the passage of RSRM segments. A smaller overhead door increases clearance so that the orbiter's tail section can pass through, Under this contract, the overhead door will be adjusted to provide a 65-foot clearance into the building. This modification will provide sufficient clearance for the ASRM aft segment to be transported into the building.

Two new 325-ton overhead cranes will be added to the VAB superstructure to lift the heavier ASRM segments into the VAB high bays, International Steel will provide the reinforcement to the overhead VAB superstructure to support the

see VAB, page B4

Lockheed speaker



Embry-Riddle Aerospace Society President Brian Marchesseault, right, is pictured with guest speaker John Williams, public affairs director at Lockheed Space Operations Company, based in Titusville.

NASA project provides resources for scientists

By Arie Moller Space Technology Inconer

In 1984, NASA decided to provide a means for scientists and industry to have small experiments placed on shuttle flights. On January 12, 1986, Columbia and the STS-61-C crew flew the first Hitchhiker (HMG-1) into orbit. This began the Hitchhiker project. The Hitchhiker program is centered at the Goddard Space Flight Center in Greenbelt,

There are two configurations that Hischhiker customers can choose for their experiment. First is the canister mounted configuration. There are

Maryland.

two canister types, the sealed canister and the motorized door canister. The scaled canister can carry a payload up to 200 pounds. The experiment is sealed in a oxygen or nitrogen atmosphere. The motorized door canister exposes the experiment to the space environment.

The second configuration is the plate mounted configuration. The plate experiments must be less than 25 inches by 39 inches in size and weigh less than 200 pounds,

Attaching the Hitchhiker modules to the shuttle payload bay can be done in two ways. First is the side mount. The side mount is flush with

and mated to the solid rocket boosters in one of the VAB high bays. Friendship rocket from Russia headed to U.S.

MOSCOW (AP) - Russia's first privately funded rocket blasted into mer Soviet rocket-building compaspace to promote friendship and attract business, carrying a payload of religious icons, peace messages, a stuffed toy dog and ada for Russian goods.

The three-stage Soyuz rocket was launched Sunday from the oncesecret Plesetsk space center near the northern Russian port of Arkangelsk, ITAR-Tass reported.

Mounted on the rocket is a Resurs which will orbit the Earth for about five days before splashing down in international waters off the Washington coast.

The Russian navy's Marshal Krylov, an occanographic research vessel designed to track and recover space capsules, will ferry the descent module to Scattle on November 24.

Scattle officials have organized receptions, art shows, dance performances and a rare public tour of the Marshal Krylov to mark the event.

The descent capsule will later be displayed at the Seattle Museum of

The space mission, dubbed Space Flight Europe-America 500," was conceived to promote Russia's new entrepreneurs and the use of technology once reserved for the Soviet military, organizers said,

It also commemorates the International Year of Space and the 500th anniversary of Columbus' arrival in the Western Hemisphere.

The project was initiated by a forny, Photon, and an independent Russian group called the Foundation for Social Innovation.

The Vehicle Assembly Building (VAB) is the heart of Launch Complex 39. This photo-

graph shows an external tank on a trailer before being lifted into an upright position

Organizers said the mission would cost about \$250 million.

But one of the launch's American promoters in Seattle said the cost estimate could be inflated in view of the project's heavy reliance on available material and equipment.

Private Russian sponsors paid for 500 satellite and descent module, the project, making it the first nongovernment funded rocket in Russia.

The flight "will link the ex-U.S.S.R. and the U.S.A. in a celebration of a new era in global political and economic relations," said the foundation chief, Gennady Alferenko.

Col. Valery Kabanov, deputy chairman of the training and testing center at the Plesetsk space facility, said he was optimistic about the prospects for future ventures involv-

ing the military and private business. The rocket's descent capsule includes appeals for peace from President Boris Yeltsin and former Soviet president Mikhail Gorbachev.

Other contents include wedding rings of a Russian couple planning to be married in Seattle; a crystal model of the Statue of Liberty; Digswell the Space Dog, a stuffed toy based on a British cartoon character; and a list of proposals to American businesses to develop joint space projects.



Source: Interavia Space Directory

AP/Karl Tata, Bill Castello

see Hitchhiker, page D4 Cosmonauts begin NASA training for shuttle flight

cosmonauts said last Tuesday that they are beginning to feel right at home as they train at NASA's Johnson Space Center for a mission aboard the Space Shuttle Discovery.

"We have been surrounded by our counterparts and felt their warmth and care, and we are very thankful for that," Vladimir Titov said through a translator. "We are certainly thrifted to participate in this mission, since this is quite a new direction for us,"

Titov and Sergei Krikalev arrived in Houston last week for an intensive training program, and both met briefly with reporters at the Johnson Space Center,

One will be chosen to fly aboard Discovery on a research mission scheduled for November 1993, while the other will serve as a backup. The voyage will be the first U.S.-Russian space endeavor since 1975, when three astronauts and two cosmonauts docked their orbiting Apollo and Soyuz spacecraft.

"It is too early to say anything definite about our future life and training in the United States, but we can already say that there is something different and a lot in common," Krikalev said.

"We are very happy that the first contact during the Soyuz-Apollo mission was followed by our cooperative work now. Hopefully, the experience of cooperation we gain here would lay the foundation for

HOUSTON (AP) - Two Russian the future work between our cosmonauts and scientists, and will be followed by other endeavors," Titov

> The cosmonauts' participation in the shuttle program is part of a cooperative agreement between the National Aeronautics and Space Administration and the Russian Space Agency. The agreement also calls for the flight of a U.S. astronaut aboard Mir and a Mir-shuttle ren-

> Certainly, this is a historic moment. It's the first opportunity to bring our two nations together to train and get ready for a space shuttle mission," said NASA astronaut Kenneth Reightler, who will pilot Discovery during next year's shuttle mission.

Titov, 45, and fellow cosmonaut Musa Manarov hold the world record for space stays. Titov remained in orbit abourd the Mir space station for 366 days in 1987-1988.

Krikalev, 34, logged a 312-day space flight aboard Mir from May 1991 to March 1992 and caught international attention when he was in orbit while the former Soviet Union dissolved. He also has made a 151-day flight.

After three months of intensive training to get the cosmonauts familiar with the shuttle, the pair will begin mission-specific training with the rest of the shuttle crew.

MD 520N

celebrates

anniversary

By Denis G. Biscobing

Auronoution Reporter

The McDonnell Douglas MD

520N helicopter just celebrated its

The NOTAR design has

established itself as a safe, quiet

addition to the McDonnell Douglas

There are more than 30 MD

520Ns in service throughout the

world, and many of their life-limited

parts are receiving extensions due to

These extensions are to be

one-year

one-year anniversary.

More 747s found to have damaged engine bolts

because it found a damaged enginemount bolt on a Boeing 747.

ordered a retest of its five 747s.

The order came just five weeks after the planes passed a Boeing recommended check following the Oct. 4 crash of an Israeli El Al cargo plane at Amsterdam.

The part wasn't on that Boeing checklist, nor was it covered by a recommendation for closer checks issued Thursday by the manufacturor, said Christopher Villiers of Boeing Commercial Airplane Group in Everett, Wash.

damaged bolt in a diagonal strut during a periodic overhaul of one of the jettiners, airline officials said.

Villiers said Boeing investigators would try to get the bolt to Seattle for testing.

Boeing had recommended pins that help connect engines to the

wings of 747-100s, -200s and -300s. A Swissair statement said the

ZURICH, Switzerland (AP)- nirline's experts had carried out the Swissair said it canceled two flights first inspections of the engine fuse to the United States on Friday pins of its Booing 747 fleet without finding any flaws.

On Thursday, Boeing recom-The airline said it immediately mended a closer check for cracks and corrosion in the fuse pins that secure engines to wings on most of its 747 jetliners.

> Swissair said it will complete its inspection Saturday morning, but canceled its Friday flights between Zurich and New York and Zurich and Chicago so that the planes could be tested. The connecting pins are mounted in a diamond pattern with two at the center of the spar, one forward and one aft.

So far, attention has been Swissair mechanics found the focussed on the center pin, but the damage found by Swissair was in the aft pin, Villiers said.

He added that there was no indication that the El Al crash resulted from damage to a pin like the one found by Swissair.

Boeing called for the inspection inspection of the 4-inch-long fuse of engine mounts after the El Al plane lost its two right engines and crashed.



A Boeing 747 is shown here taking off from Boeing Field. According to officials, the company has urged further inspections as a precautionary measure. The center connecting fuse pins on the engine mounts are suspect, and may have falled causing the crash of two cargo aircraft.

when the plane crashed into a the plane's fuse pins. crowded apartment building in suburban Amsterdam.

Investigators found signs of metal At last 43 people were killed fatigue and corrosion in several of

A similar China Airlines cargo plane crashed last December after it lost its two right engines soon after takeoff from Taiwan. Five crew as a precautionary measure.

MIAMI (AP) -Air Canada tried

to entice travelers to fly earlier than

usual this winter with discount fares

through the holidays between its

base and Florida, Delta Air Lines

Canadian snowbirds often spend

several weeks or even months in

Florida to get a break from the

northern chill, sticking airlines with

empty northbound seats until late

Air Canada is adding flights.

putting larger aircraft in service on

weekends and discounting flights

that begin from Dec. 15 to Jan. 27

the capacity to serve the Canadian

market going to South Florida and

reduce the cost of flying empty seats

northbound," U.S. passenger sales

manager Marc Rosenberg said

Tuesday, "A certain percent of the

market will respond to a fare

"It's a good way for us to provide

also joined in the cuts.

and end within 30 days.

initiative."

members were killed in that crash,

Boeing vice president Jim Johnson said Thursday that the company had urged further inspections

The discounts cover scheduled

flights linking Miami and Tampa

with Montreal and Toronto plus

charter flights to Canada from Fort

Lauderdale, Fort Myers, Orlando

For example, the airline is offering

fares of \$189 between Miami and

Toronto and \$179 between Tampa

and Toronto on 14-day advance pur-

chases from Dec. 15 to 27. The fares

would be \$177 and \$169,

respectively, from Dec. 31 to

Current advance fares run \$229 for

Compared to higher economy fares

the Miami trip and \$249 for Tampa.

without advance purchase, the

prices are as much as 70 percent off,

The Montreal-based carrier's

biggest competitors on the routes

are Canada's other major airline,

Canadian Airlines International, and

and West Palm Beach.

Jan. 27.

the airline said.

Air Canada reduces rates

officially recognized by the FAA within a few months.

At this point, the NOTAR system has been subjected to the equivalent of 30,000 hours of ground fatigue testing.

their proven reliability.

This qualifies the hub, fan assembly and mechanical pitch change controls for a 7,500 hour

time between overhaul (TBO). The horizontal stabilizer has qualified for a 10,000 hour limit, and the anti-torque assemblies in the tail have a 5,000 hour TBO,

Currently, the McDonnell Douglas belicopter division has 100 orders for the MD 520N.

McDonnell Douglas also announced plans to produce an eight-place, twin-turbine NOTAR helicopter, the MD Explorer.

Plans for the Explorer, which is planned to have its first flight late in the year, include a new advanced airfoil main rotor.

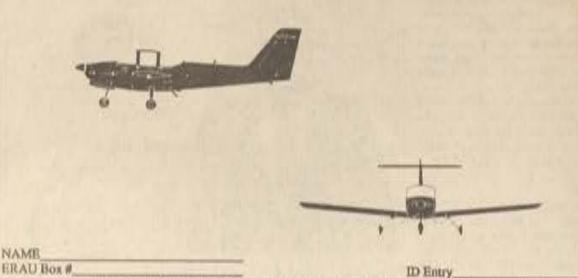
This airfoil, coupled with a special tip design, will complement

the NOTAR's low noise characteris-It is predicted to meet stage 2

noise limits by a margin greater than any other existing helicopter. McDonnell Douglas already has over 250 interested buyers for the

Explorer. The anniversary was celebrated quietly, like how the project has progressed so far.

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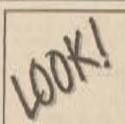
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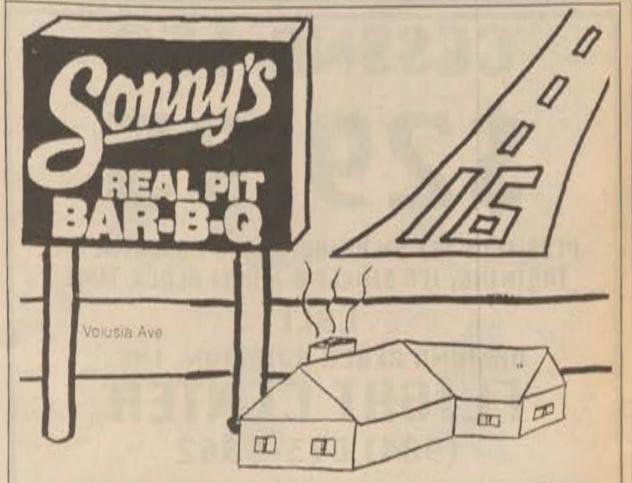
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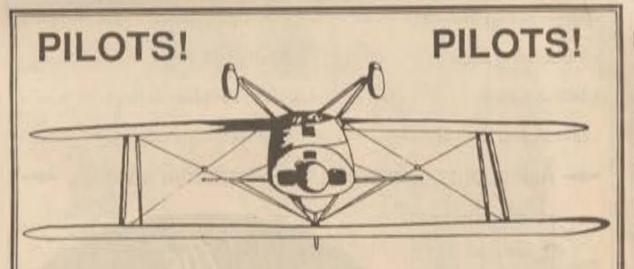


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VAB

(continued from page B1)

(continued from page B1)

The final modification to the VAB will be the addition of a 245,000-square-foot steel access platform to the roof of the VAB. The platform will be suspended six and one-half feet below the interior high bay roof. The platform is designed to catch small pieces of concrete that periodically fall from the roof's support structure. At the present time, webbed nets are in place to protect workers and shuttle

the shuttle bays walls. The typical

mount area is on the forward star-

hardware from the falling debris. The new platform will also provide access for workers as they repair the

roof of the 27 year old structure, The ASRM-related modifications will make up \$2.7 million of the awarded contract. The remaining \$3.9 million will cover the roof platform installation. Work on High Bay three will begin in March 1993, and will last 137 days, High Bay one modifications will begin in October 1993, with completion required in 130 days. Adjustment to the small overhead door will begin in

Cross-bay mounting consists of mounting beams that span the bay width wise. Up to 11 canisters can be attached to the cross beam,

Once in orbit, customers can conboard side. Up to three experiments trol their experiments in real-time

December 1994. Reinforcement to the VAB superstructure and the addition of the access platform will begin in March 1993.

High Bays one and three are used for integration and stacking of the complete space shuttle vehicle. High Bay two is used for external tank checkout and storage and as a contingency storage area for orbiters. High Bay four also is used for external tank checkout and storage, as well as for payloud canister operations and solid rocket booster contingency handling.

Goddard Space Flight Center. Goddard then transmits the commands to a avionics unit on the shuttle that controls and provides power to the Hitchhikers.

can be mounted on a single beam. through a computer link with the uled to fly between 1992 and 1995. There are 12 Hitchhikers sched-

Happy Thanksgiving THE AVION

ARBY APPEN ADM

GET

TODAY P

WRITE TO YOURSELF, YOU GET A LOT OF MAIL.

50 IT WAS YOU THE WHOLE

THE TEACH HOLL TO TRICK

MEETING SMILE KFIER

SM MITTLE

THE AIR THERE'S A

DOOK HORBES, I BOT A

FEE HEELING OF

YOU JUST HAVE NO SENSE OF

ME, YOU BYE HAIRHALL!

TIME! YOURE THE CHE

MHOS BEEN WENDING WE

Calvin and Hobbes

by Bill Waterson



YOU AND YOUR SHEARY CODES AND PASTED LETTERS AND SKULL DRAWINGS!

I DO TOO!

THAT WAS A

NASTY AWAYL

TERRIBLE,

IT JUST

ALL RIGHT, WHERE'S
THAT MISERABLE
BUNCH OF STRIPEY
ORANGE FLEA BAIT

ALTHOUGH, REALLY, THE SKULL DRAWINGS WERE PRETTY COOL

RIGHT! IT IS

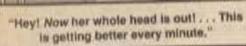
FUNNY! ! UA HA

PALS AGAIN!



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Far Side



by Gary Larson



"Won't talk, huh? . . . Frankie! Hand me that scaler.



Inexplicably, Bob's porcupine goes flat.

"Oh, wonderful! Look at this, Etta another mouth to feed."









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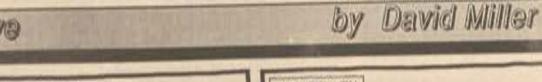






by Berkeley Breathed



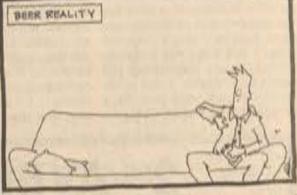


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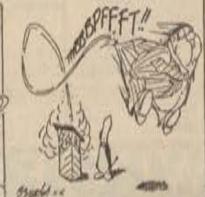














Ninety-Nines

By Jennifer Warren Africido

Well ladies, this semester is really turning out to be fun and successful for the Ninety-Nines!

Many thanks to Teressa and her parents for the trip to McDill AFB. (awards will be issued later for the trampoline event and shower marathon.) Next time you fly over Spruce Creek Airport, orient yourself with the new compass rose!

of the flight team for bringing home a regional championship! Great job

Some of our chapter Ninety-Nines anaining their CFI ratings.

By Michele McNitt

Vice President

I want to thank everyone for vol-

unteering to help out with the con-

cessions for the Homecoming con-

weather, the concessions were can-

on Tuesday November 10th, They

spoke on how they got their start in

aerobatics, and about their flight

school, Mudry Aviation, located at

Flagler Airport. They showed an

exciting tape of their airshow act. I

want to thank everyone for coming,

The semester is almost over, we

have 2 meetings left, the 24th of

November, and the 1st of December,

A shopping trip to the Bells Outlet

both members and nonmembers.

were able to participate in the judging of this competion.

Once again, Homecoming has left us with an abundace of chocolate chip cookies. Let's hope there are lots of hungry poepls at the flight

The next event we have planned is the New Symma Airshow this weekend, During which we will be parking airplanes.

Our next meeting will be tonight Congratulations to the members at 7 p.m. in room 157 in the library. See you there!

Congratulations to Melissa Washburn and Linda Penterman for

Mall in Orlando is being arranged for Saturday the 21st of November

Programming Board. The 21st is also Sara Summerson's birthday, so Happy Birthday Sara.

in conjunction with the Women's

cert. Unfortunately, due to bad The Christmas party is in the works for 5 December. Thanks to The French Connection acrobateveryone for making this a great ic/airshow team was a guest speaker

> If you haven't been able to make it this semester, I hope you will consider next semester. We're already working on those plans. We will be working at the races as our major fund raising activities, and we will be taking a trip somewhere. Last ear we went on a cruise to the Bahamas at club expense.

> I hope this year we can raise enough money to make it an even better trip.



coled.

By Brian Kliday Minshis

Whew! what a weekend!! With the brother's reception, the Fall Formal (?), and the second review session, its a wonder any of us are still standing. No Dave, I didn't put the Clinton sticker on your carl

Congratulations to our newly elected spring officers.

To pledges, no it's not over, it is

merely a new beginning...so don't lose sight of your ideals and continue striving for your goals.

To Jimmy, no need to get upset, your Rogaine C.O.D., and no one had the money.

To Jason, what if it gets lost! Looking forward Thanksgiving? Lets get ready for the big meal at the house, you can put off those projects a few more days!

PS. Thanks Heidit

By Jason Piper

Once again I have managed to slide a article into the Avion. One of

these days they're going to get sick of me and throw me off the staff, but until then I'll keep slipping articles in after the deadline.

I finally broke down last Thursday and went to Cheers, I said I was never going to go, but found myself on stage with Garvin singing "Margaritaville" only moments after getting there. If anyone is wondering what the hell I'm talking about it's Stormin' Normin the karaoke man, He's at 3 Cheers in Ormond every Tues, and Thurs. We brothers go every Thursday and make asses of ourselves on stage. It's a lot of fun. Through the course of the night, just about everybody sang at least one song, some did a lot, some too many. I'm not mentioning any names, Scott Spector, A few of the memorable performers were Gregg Belter and Doug Watson. Gregg did

a wonderful David Lee Roth "just a gigolo" despite not actually singing any of the words. The dance just made the whole show. Doug on request of a total stranger did an outstanding "end of the world" by R.R.M. He had the whole bur going

the pledge period now. Third interviews was last Friday, thanks to Joe, Matt, Craig, Rob and Dan for the use of the house. In four short but long days the remnants of the Beta Nu pledge class will become brothers. They have almost reached there goal. Guys I'll see you on the flip side. I'm still curious why Pete is buying up all the feather dusters at Albertsons though.

On a serious note, football season is over for us. we lost our game on sunday, and the finals are single elimination, so despite our efforts this season we didn't bring home a trophy for Rho. We did however have a great time and post a 4 and 1 record in the regular season, next no longer in business any more. year. Next year.

By Jenn Bailey

Sigma Tau Delta has several activities in the works.

Currently, five of our members are at work reviewing submissions to Creations magazine.

We plan to visit the Salvador Dali museum in Tampa, Fl. A tentative date of Sat., Nov 21., has been set for this trip. Those wishing to attend should meet at 8:00am in front of the library to get a head start on the long drive to Tampa. The club will provide transportation.

A special thanks goes to Dr. Pratt

and the Humanities Department. We appreciated their help in sponsoring two flautists, Delores Armato and Kim Hembold, from Stetson University, who performed " An hour with Mozart" on Oct. 29.

Our next meeting will be held on Thursday, Nov. 12, at 5:30 in room 157D of the library.

All members and prospective members are encouraged to attend. We will finalize our plans for the Dali trip, organize volunteers to complete work on Creations, and plan for fund raisers.

We welcome your ideast

Clubs Policy

All articles must be type-written, double spaced or on disk format (unformatted in Word Star or Microsoft Word).

Deadline for submission of all club material is Wednesday at 5 p.m., one week prior to publication.

Photos may be submitted with club articles: All submitted material becomes property of the Avian with the exception of disks.

The Avion reserves the right to edit all submitted copy.

For more information stop by or call the Avion office at (904) 226-6049.

Army R.O.T.C

By Jon S. Jackson Mamber

"Gast Gast" was the echo of the cadets at their last training lab. These cries were in conjunction with the nuclear, biological, and chemical (NBC) training they were undergo-

During their training, cadets learned how to don protective masks, apply lifesaving injections to NBC casualties, and learned the five stages of the Army's Mission Orientation Protective Posture

Both Desert Shield and Desert Storm demonstrated that the possibility of NBC attacks exist on today's modern battlefield.

Ranger Challenge ended its suc-

cessful season at the 1st Region competition at Fort Bragg, North Carolina.Commander Steve Charnon, seniors Eric Pevey and Dallas Keller, and all of the remaining rangers represented not only the Engle Battalion, but also Embry-Riddle in a professional and prideful manner. Your early morning sweat, hard work, and dedication is greatly appreciatedt

On Veteran's Day, November 11, at 1100 hrs members of the Eagle Battalion honored fallen comrades with a ceremony.

An Embry-Riddle graduate, Kerry Kein, was one of those honored. CW2 Kein was killed in action during Desert Storm.

As cadets we truly are the spirit of those who have made the final sacri-

Aerospace Society

By Joshua Mussat **Historian**

Thanks again to Dr. John Williams, director of public affairs at Lockheed Space Operations Company for his informative presentation on the space shuttle and the space program in general,

Tonight we will be hosting an There is only a few days left in Embry-Riddle graduate who currently works at Gulfstream Aerospace. Tonight's meeting will be at 7:00 p.m. in room E-611.

Next week will be the last general meeting of the fall semester. We will be rewarding our points-for-prizes winners and all members who have participated this semester. We will also have a small tribute to one of our graduating seniors, former president Roland Houle, who will be moving on to bigger and better things. Well at least he will be moving on! Good luck Roland!

Due to circumstances beyond our control, we will not be having our end of the semester party at Mr. Gatti's. Unfortunately, Mr. Gatti's is

Just because next weeks meeting

is the last of the semester doesn't mean the Aerospace Society is done for the year. For those members who will be here on Thanksgiving day, we will be having a special Brian, Our turkey dinner with all the trimmings will be cooked by the soon to be famous chef and president-elect, Stephanie.

For those of you that still have candy in your possession, please bring your money and remaining candy to the meeting tonight so that we can return the rest to the manufacturer.

Since this will be the last Acrospace Society club article of 1992, let me take the time to wish all of you a Merry Christmas or Happy Hanukkah, your choice, and a safe and healthy new year.

Now if you are still looking for that perfect gift for your friend or loved one this holiday season, why not get them one of the official Aerospace Society club T-shirts, These beauties are still available for the remarkable low price of only \$6.00. Supplies are limited, so act

Surf Club

By J. R. Brotherton

If you attempted to bare the cold air temperatures over the weekend, you were probably catching some of the biggest waves to come this way since last year.

Air temperatures were down in the forties Sunday, and the north east wind was blowing about twenty knots on-shore. The conditions were choppy true, but you have to take the bad with the good in some cases.

In this case, you had to take on the extreme air temperatures, the stiff on-shore winds, and the chop in between sets to get the large rides.

Last week I had an article in about the innerclub contest for this past Sunday.

The Avion, however, failed to print it, which means you guys missed a lot of info that was important for this coming weekend. So to get you up to date, we are still going to my house in St. Augustine this weekend for the second contest of

Be sure to come to the meeting this evening to find out when we are leaving.

The team that will be competing in this contest will be announced tonight at the meeting as well.

If you ordered a board from Clubber through Bob Taylor, they should be ready by now.

I stopped by the surf shop last Tuesday to check on them, and I was told they were at the factory being glassed and should be ready on the sixteenth, which was this past Monday. If you would still like to order a board, talk to Bob and he will hook you up with a deal at Clubber.

Von Stienmetz just recently got a job flying right seat for some company up in North Carolina. I was told that after his first year he should have over a thousand flight hours of multi engine time. Good job, Von.

The condoms are finally here (three weeks overdue). The Stormriders are selling Embry-Riddle condoms for a \$1.50 each. The front of the cover says Embry-Riddle Stormriders and the back shows a condom holding a surfboard with a wave breaking in the background. On the bottom are the words, "You're cuttin' me on, right?" The club is solling the custom condoms as a fundraiser and to promote safe sex in the surfing community as well as on campus.

See you all at the meeting tonight, check the board to see where, and have a good Thanksgiving holiday.

Society Arnold Squadron from Embry-Riddle put in

By Nicole L. Malloy Public Affairs Officer

Each year Arnold Air Society Area IV holds an Area Conclave to discuss Society business.

This year, the Area Conclave, ARCON), was hosted by The University of South Florida's Squadron in Tampa, Florida,

The Conclave started on Friday night, October 16th, with a welcoming party. This allowed the different squadrons to get reacquainted with each other.

The cadets mingled and discussed topics ranging from the previous year's ARCON, (which was held at Embry-Riddle), to the upcoming National Conclave in Orlando in April of 1993.

As the night progressed, some groups broke off and went out for a night on the town, while others headed to their rooms for a good night's sleep.

the cadeis with a 7:00 breakfast and leyball games and had a great time a 7:30 am meeting. The entire day at the various water slides. Thanksgiving blow out at the resi- was meetings for various specific dence of our outgoing president, functions as well as squadron were looking forward to the inspections.

> During the largest meeting, our squadron, the Kenneth L. Tallman



Hey, how about that formal? Well, I must say most of us, that I know of, had a really good time and enjoyed the whole trip thorougly.

Naturally a thank you goes out to Travis for the major orginizational

On the other hand, maybe a class on map reading would be advanta-

This weekend looks to be an interesting venture as well.

Beastie Boys concert was well represented.

a bid for Area Headquarters for the upcoming year. There was competition from another squadron, but since we are the largest squadron in the southeast region, the other squadron pulled their bid.

Later in the afternoon, after inspections, the Kenneth L. Tallman Squadron was named best in the Area and awarded a cash prize, After the meetings were through

and business was completed, the cadets prepared for the banquet. Our Squadron again impressed the others by initiating a few warrior spirit activities during the dinner.

As the Area Commander closed the banquet, minds turned to the activities of the night. Cadets again hit the town, some to a haunted house, others to various clubs, and others even to the movies

Sunday was spent at Adventure Island where a free barbecue lunch was provided.

The Squadrons participated in Saturday morning started early for some friendly yet competitive vol-

With the weekend ending, cadeus

National Conclave in Orlando in the Spring of 93 and even to next year's

By Boyd Kelly SHADRACH, MESACH, ABEDVECO.

Speaking of ventures, last Friday's

Of course, there is no paper next week and that means no article so I have to wish everyone a happy

Thanksgiving right now. Good luck on those finals and I wish I didn't have quite so much space to fill.

Remember elections tonight. Camping this weekend.

Everybody be thinking about next semester and the precrations that need to be made for RUSH.

Pitch in and give Tom a hand, Besides the TV what else do you have to do?

If I can just come up with a little more I can finish and go home and sloop and study...

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1990 Ford Ranger, low miles, lift his, tag tires and wheels, running boards, rollbar with lights, turroof, Alpine steres with amp and box, CB, PA, oustorn plustriping, much more, \$7,900 OliO. Call Thorsian 760-3493 or 226-6825.

1923 Honda Interceptor 750, Pon, reliable transportation, Asking \$1,300, call Doyle at

interior but loud, \$300 ask for Chris 258-Ford Tempo 4 drive, sinto. Nice exterior and

1979 Ford Future, 6 cylinder, Auto, air. Good tires, decent shape, 98,000 miles, \$350, Call Mark 788-2080.

Opiniobile Cuths Brougham 81. Good Continion, \$950-Call 239-7686 OBO.

1984 Chevy Monte Carlo, V8, mno, AM/PM nume coverns, cold A/C, good condition, nms gmat \$2,200 OHO Call 255-2673.

1983 Chrysler New Yorker, Excellent condition, power everything, A/C runs great, \$1,400 OBO, Call Much 274-1180.

Bonds Nighthawk 650, 1982. Good Condition \$1,000 OBO Call 239-7686. Ronmusts Needed to share 2 bedroom apt.

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1175/mo and 1/2 utilities and phone. Nice quiet spt. and location approx. 15 mins. from BRAU. Available now, don't wait. Apr. does have washer and dyer. lither gender is welcoms, call 253-8037,

\$225 per month for non-smoking roommus is nice 3 bedroom, 2 bath house in Port Orange. Microwave, VCR, etc. Call 767-

Pemale recommuse wanted for 3 bedroom spartment. Hent 5142 plus 1/3 milities. Move in December, Call Maliana 760-9686.

+ Misc. for sale

Sony AM/FM Cass, pulson w/10 Dist, CD shanger, Rockford Forgate punch 30 amp. 2 107 Cerwin Vega sub S.W/Box. Ask For Ken.

Math 10 body boards in excellent condition with flee and beach installed, Size Targe flupers also. Retail price is \$160, will sail 540 OHC: Call Mail at 257-4376 or Box

5'5 G&5 surfboard, great condition, 5150 OBO call Minch, 274-1180.

Yakima roof rack system with one bike rack 5250; Cannondals suris 3 with Scott at 3 harefle bars-5400; and a Dorm fridge-530. Call 760-2781 Isave message.

Bioyels 1991 Diamondback Master T.O. 14 speed, Shimano 105 components, many extras. \$700. Rob 257-1284.

AR-7 survival rifle .22 caliber, 3 extra clips. Must sall-first \$65 cash takes it! Call 253-

12-speed touring bike, Concord " Preedom ", Shimano Biospace SIS gear system, doublebutted tubes, tocclips. Very well maintainedexcellent condition. \$200, Call Randy at 226-

Small roll-top desk 15"x30" workspace offer. Call Curt 248-0237,

Berretta 92 F with shooting systems shoulder rig \$550 OBO, Call Cort 248-0237,

Data General 386 Laptop \$950, 2048K RAM, 40 Megabyte harddrive. Battery, power outlet 32 shade VGA Grayscale. Leave message 238-7355.

\$400 gold chain for \$150 O.B.O. Call Dan at

For sale: Drum set - 5 peice with Rote tuors and two crash cymbals. A steal at \$3001 Call Kelly at 239-9411.

For sale: 7 foot Burness python, Female, heterozygous albino, Beautiful with no scars. Please call at 255-7137. If not at home, leave a message.

For sale: 3 foot savanah monitor lizard. Huga body, very healthy. Call 255-7137, if so snawer, leave message for Rick.

Get fit: I bought a one year membership at Continental Health & Pitness in Post Orange for \$200. Leaving town - can transfer membership. 10 months remaining. A steal at \$100. Contact Ros at 767-2908.

Grad sale: Full size bed - 5125, Shelf lamp \$5, Couch - \$75, TV stand - \$10, Deak - \$50, Lawn chair - \$10, Wicker chest - \$20, Pile cabinet - \$20, Hibachi grill, - \$10, Jeep soft top -5400, Call Liz or Ray at 761-8140.

Lacrosse equipment for sale: Helmet - \$60, Gloves - \$20, Long stick - 520, STX Head \$10. Call 253-8899.

Sony reciever STR-AV570, 60 W - 5150. Sony carouani 5-CD player CDP-C215 w/ extended war. \$170. Sony remote Commander RM-U201 - \$40. Like new, sil for \$350, Call 257-3905.

Motorcycle parts for sale, including battury, lights, time, etc. - '81 Honds. Cheep! 226-7322 after 2:00 p.m. Ask for CJ.

Talex 951 Headsess: Perfect condition Hardly used, \$80 east/firm, Call 253-8899

+ Miscellaneous

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I am looking for a ride to Pittsburgh or within 200 mile of it. For Christmas Break. Call Toon at 788-5269. Will pay 1/2 gas.

Anyone travelling to Montreal, Canada or anywhere nearby this Christmas and needing company? Call Raffi at 322-2729. Willing to

Multi-engine insurator ratings for only \$775 duid block time. Only 15 hours of PIC needed for this rating and no instrument work is involved. This is not time sharing, you fly all the time. Call Jack or Mike at 756-1494.

Want ME-I to fly with me in Senoca/Cherokee. Lam a graduate andeen lost medical. You need 15 hrs. Seneca time for Insurance Co. This can be negistiated. Reply ERAU Box 8237.

Flight instruction - Professional, sincure, flexible, local maident, reasonable rates. Bianutals, competency theck, Private, Instrument, Commercial, and ground instruction, Call Many 756-3520 or ERAU

> Personals

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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, at 226-6051.

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. Only paid ads will run for two issues and may be renewed by filling out another classified ad card.

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Need a ride to the Dallas - Pt. Worth area for Christman Break? I'm looking for someone to help drive and split come If interested, contact Jenny #1722-2743.

Anyone interested in a cide to New York (Rochester Area) for Christmas Break? I'm looking for a passenger to split costs and drive time with. If interested leave name and # in box 7490.

PLY GIRL,

Somebody told me you have to earn that number! Don't worry, non week will be less heetic than the past few (NOTI) I really cherish the time you set aside for mal Have a happy day. Love ya. FLY DUDE

No are you gutting me a date for the prom-THEFT

SINSTTIVE CHUP FROM NEW JERSEY-We are soums from Sonny's. I hope Ari pays us track. She is finally coming around to our Mandards. OHTZ

I see the polish magner is accrusted to you

onen again. It must be fun. Good look. SATANIC

HILLIN MANH I did it! We're both tired of it all (along with the rest). Losers and gook pansies - you know. Wah-riss? Now you can mad the Avion in peacel

PRUN-II Bush got licked in '92. Thank to all who

supported the next pres.

THE CLINTON TRAM AT ERAU TO: THE CUTE BLONDS CHURRLEADER

WITH THE OLDER MUSTANG I think you're really quite cute and that we could make a great couple with a long forum. I'm serious so please imply to box C262C AN ADMIRER

Congress to all the new bother elects of Lambria Chi Alpha. Keep your eyes and surs open in the opcoming weeks!

RABY-Wanted to sell you "I love you 'till infinity," no matter what! Together! YOUR HABY DOLL

If there was a string of very mocensful bank thefts that came into the media eye, what do you think the chance is of the Fill framing an innocent group if the thiever could not be

Can I ask you a personal question?

ABURILLIUS 1407

DRAR MR. SENSITIVE The gays how must be getting pretty. desperate. Deitzman spent \$500 just to get laid. He should have known we would have done him for half that! DULLSRYE

Want to go to the prom? LUANNE

Happy Birthday, Paryi

Thank-you for making my dream, as well as yours, a reality. You guys were fantastic. PATTY

CHRISTOPHER Your a great "flight instructor." Ministry here we come. NOT. THE MID-WEST MOSH QUEEN

PATTY RLIZER Happy birthday old lady! Hope you enjoy all your presents you will recieve today. I love you and hig congratulations on the debot performance of G-Foront Love, THE MAN BIBLIND THE SQUAD

SANTANIC & ODKUL Fix the signs. I keep overheating my brakes, THE HITMAN

Congrets babe we know you could do it. Now get a job you burn, Love, SHANNON AND DEB DEB

TO THE MAN BUILD THE SQUAD: I want you to know that I could not have done it without you. Thank-you for believing in ma. I love you.

Thank to the brothers at the "Lambila Chi" house. Great party for Halloween. The brotherhood was there! Great party!

CINDARILLA I non 5.0 cleaned up our act. J.D. and I see private parking in our future. After all, we've SATANIC

DHAR KARLEN The past morth and a half has been great. I love spending time with you and sharing Kleenex. How about going out for pizza. I'm sorry, I want, I like, I love. PROM THE ONE IN YOUR LIFE

Was it Craig or Grog? We're taking a break . . . we'll be back in 45 minutes. Kleenes any body? Post-clean up materials? Pink lemonade? Love, LAREN OF KAREN

It would be great if everything works out so that we can be together. I think I will like the stocking after all and we'll have to show it off sometime. Hove you't

RIDDLE PLAYERS Break a log Pri and Sat with your play. See you at See you at 8:00 in the U.C. LARA WITT

DRAMA DEPT Congratulations on the Airline Network, I hope that The Foreigner is just as good. We'll and this weekend PATSY ROMFH

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Notices

Morrison's has Thanksgiving

menu 1992 ERAU Thanksgiving Luncheon Special, Friday, November 20, 1992, 10:30 a.m. thru

2:00 p.m. Choice of one: Roast Tom Turkey with cranberry sauce or sliced roast beef served with fresh mushroom

with beef or poultry gravy fresh

sweet potatoes. dressing, seasoned green beans, cauliflower with cheese sauce, fresh

baked muffins.

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Nominate an Outstanding A&P student graduating this year to receive a scholarship from helicopter and engine manufactures. The first prize winner will also be award-Choice of one: Whipped potatoes ed up to \$1,500 from Helicopter Association International (HAI) to assist with expenses, Second, third (Also serving) turkey giblet and forth prizes will also be awarded up to \$1,000, \$750 and \$500 respectively.

Choice of one; Pumpkin pie, concerning the HAI Mechanic/ 1:30 p.m. If you cannot attend the ers.

Program, contact Cheryl M, Kriegel, HAI Heliports and Technical Program Assistant at (703) 683-4646. Application forms must be received by HAI no later than December 15, 1992.

Send complete applications to: Helicopter Association International

ATTN:: Mechanic/Technician Scholarship Award Program 1619 Duke Street Alexandria, VA 22314-3439

Attention SWE members

The Society of Women Engineers will have a organizational meeting For application forms or questions on November 19th in room W306 at

(904) 761-9313

Technician Scholarship Award meeting see Professor Gurace in her office A110.

The Society of Women Engineers organization with the purpose of stimulating women to achieve full potential in careers as engineers and leaders. The purpose of the student sections are to provide a support system, to increase the understanding of engineering and to enhance

professionalism among its members. Students honored

The 1993 edition of Who's Who Among Student in American Universities and Colleges will include the names of 44 students from Embry-Riddle Aeronautical University who have been selected as national outstanding campus lead-

Campus nominating committees and editors of the annual directory have included the names of these is a non-profit, educational service students based on their academic schievement, service to the community, leadership in extracurricular activities and potential for continued

> They join an elite group of students selected from more than 1,400 institutions of higher learning in all 50 states, the District of Columbia and several foreign nations.

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