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Embry-Riddle Aeronautical University

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Volume 62, Innue 5

Embry-fliddle Aeronautical University, Daytona Beach, Florida

July 26, 1989

world over said General Bernard P. Randolph, who

but John Kirsch never had any doubts. He had seen a

"flying wing" take to the sky back in 1947 when he worked

in the sheet-metal department of Northrop Co., the defense contractor that produced the II-2, when the company

bling the stenlik

Although it is interesting to see the "flying

wing" design come into

prominence again, Kirsch

said the price tag disturbs

who went through the Depression, it seems so



It's a bird ...

No. It is the \$550million dollar version of the B-49. The B-2 bomber is now fully operationall and is undergoing daylight testing in California. The controversial airplane preformed to literature to receivers as possible its preliminary testing flawlessly.

directs research, development and testing of acrospace systems for the Air force. There were many who believed that this flying ment, according to Air Force officials and exists now as a boomerang of an aircraft would never get off the ground.

"We're talking about an aircraft now that

in many places around the world over"...

Stealth program off the ground
by Kross Latham negates the air defenses built up in many places around the Aeronautica Editor

Pentagon officials watched with fingers crossed as the B-2 sicalth bomber left the ground for the first time last Monday. It was the culmination of 18 years of develop-

revolutionary advancement in intercontinental bombers. Despite the successful first flight, congressional opposition remains to the radar-evading arreraft that at \$530 million a copy is the most expensive in history

The Pentagon hopes to buy 132 planes at a cost of about produced the YB-49 prototype - a bomber closely resem-570 billion. In fiscal 1990,

the defense department has proposed spending \$4.7 bilhon for the B-2, but fact basically negates the air defenses built up month the House Armed Survices Panel cut 5800 million from the budget.

The B-2 program has been shrouded in secrecy

for over ten years, but as opposition to the expensive wasteful," he said. sircraft has grown in Congress, the Air Force has been more forthcoming with information.

of Staff Larry Welch briefed members of the House Armed produce a plane because their profit is based on cost." services Committee in an open session that included a olor slide presentation on the plane

Money for the B-2 is expected to be the most controverstat item next week when the House and Senate consider the defense bill. The B-2 utilizes an unorthodox design of curves and contours which make it "invisible" to suphistiented enemy radar detection systems,

This stealth technology is not designed to clude enemy adar abut to actually absorb it, thus reflecting as little

ich cage talking about an aircraft now that basically

Kirsch said waste was common when he worked at Northrop, "They wasted material like it was nothing" he Last week, Air Force secretary Donald Rice and Chief said. "Of course they don't care how much it costs to

General Bernard P. Randolphaim, "To a guy like me

The YB-49 featured four jet engines and a bubble cockpit in the certier of the wing's arch. The two aircraft share dimensional Similarities as well as design. The wingspans of those aircraft that were born more than 40 years apart, both measure out at 172 feet - slightly less than the wingspan of a B-52 Stratofortress.

The YB-49 was held in high regard by many test pilots of the day. Fabricated entirely from aluminum, this aircraft was not insended to clude enemy radar. Hardly any was in use at that time. It was capable of flying at altitudes in ex-

see STEALTH, page 3

Riddle Alumni killed in banner towing accident by Phyllis A. Salmons Ocean Acrial Advertisement Inc. Aeronautica Editor

by Phyllis A. Salmons

April 1989 guiduate of Embry-Rid-Wednesday, July 12 from injuries over the years. sustained when the single-engine plane he was piloting crashed while flying over Berlin, Md. At the time, Aerial Advertisement, Inc. of Rating

Ocean City, Md.

investigation by sufery officials who will make a final determination about the cause of the accident.

In telephone

imerviews with a representative of the Ocean City the Times. newspaper covering the ac erdent, and

Robert Bunting.

owner of Ocean Aerial Advertisement Inc., the accident occurred at approximately 11 a.m. The weather on the moring of the occident was clear. Miller had failed in his first attempt to book a banner in the 1974 Bellanca Chabria and he performed a normal go-around pattern, climbing and then banking left. Upon missing again on the second attempt, the airplane had not climbed as it should have and when it banked to the left, an apparent stall ensued. The plane fell on high voltage

wires and burst into flames. Bunting said the airplane appenred to still be developing power and a survey of the wrockage showed that all control cables were still intact. Officer Paul Fort of the Maryland State Police told the Ocean City Times that Miller died instantaneously.

Miller had been working at

for about four weeks and "had been Michael William Miller, 23, an doing a good job" according to Bunting, who says he has employed dle Aeronautical University died a number of Embry-Riddle pilots

Miller graduated from Embry-Riddle with a B. S. in Aeronautical-Science and had carned his Com-Miller was employed by Ocean mercial Multi-Engine Instrument

He served as Vice President of The accident is currently under the Student Government Associ-

ation and Chairman of the Student Finance Board, He was the founder and president of the Windsurfing Club, a member of the Naval Aviation Club, and Sigma Tau Delta Fraternity. He served on the Senior Class Council, the Readmis-

Comsion: mittee, the Aeronautilus Committee, and was the Chairman of the Spring Fling Committee, He was also a community volunteer for the YMCA of Daytona Beach.

The University held a memorial service for Miller on July 17 which was attended by his parents, brother and sister as well as numerous friends among the student body, faculty, and staff of Embay Riddle,

Miller's father spoke of Michael's involvement in the activities of the University, the good friends he had made at Embry-Riddle and his love of flying. Mr. Miller concluded that Michael spent some of his happiest days at Embry-Riddle being with his friends and doing what he loved. We who knew him will not forget

by Kress Latham

As the smoke cleared from the 232, which crashed last Wednesday after a complete hydraulic failure, the death toll had finally stabilized to 110

This number differs from United Airlines count of 109 persons, The discrepency in the numbers comes. from an uncertainty as to how many passengers actually boarded the aircraft as opposed to the number of rickets sold. The latter being used by the NTSB as a basis for their estimate.

United was sticking by its previous figure of 293 people aboard, United spokesperson Ann Thoma said today in Chicago. "A person may have checked in at the ticket counter, gone to the lounge and had a glass of beer and missed the plane," City Manager Hank Sinda said, explaining a possible reason for the two person dis-

crepency. Or they might have got on the to the cockpit and was now on his violently to rest last Wednesday.

plane, gotten off to use the washroom knees before the throttle quadrant, and missed the plane."

ing appro

w that the

wreckage of United Airlines Flight passing over western lowa enroute to the sof the two wing-mounted engines. Chicago and Philadelphia when an explosion in the rear of the aircraft knocked the flight attendants to the

> One unidentified attendant, went into the cockpit and found the flight crew struggling to regain control of

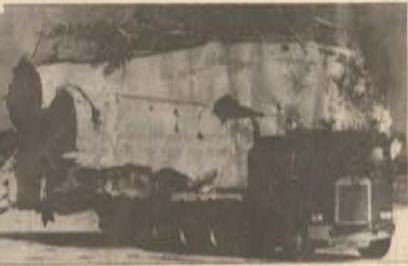
the airplane. Down on the ground, Mitch Quirin found a dome shaped metal object, 6 or 7 feet high and 6 feet long, lying in the field behind his house. It was immediately obvious to him that it was

part of an airliner. 'My first thought was, I wonder what's happening to the plane," said Quirin, vice president of Mellow Deni.

About 4 miles southwest, three more pieces of the aircraft fell to the ground. One was a 6 foot metal band engraved with: ENG2.

trying to help the flight crew control The 15 year old DC-1O was just the aircraft by manipulating the three- of two men desperately trying to get

"What you have bere is a situation see CRASH, page 3



aused fatal crash

The aftermath...

One of the larger sections of fuselage is trucked away from Anott-duty pilot had made his way the Iowa comfield where United Airlines Flight 232 came

Tuition payment grace period eliminated

University by moving up the tuition processing and

the long lines that students had to wait in on the last

"Students will always put payment off to

the last minute."

by Brian Cerni

Campus News Editor

Beginning this fall, a new tuition payment policy will be instituted, requiring all students to pay their tuition the first day of class or sign a tuttion payment agreement. A leuer has been sent to students stating that "Under the agreement, a \$100.00 deferred payment fee will be assessed and 1.5% service charge will be accrued each month until the account is paid in full. Payment must be received no later than October 18, 1989 after which date the attudent will be administratively withdrawn.

Although this new policy comes as a surprise to many students, Cherie Armstrong, Director of Student Financial Services, said that the payment policy is no different from the past. "Tuition has always been due the first day of class. We're trying to get the commitment from the studonts, whether the payment itself or the intent to pay." Under the old policy, students had 2 weeks to pay their tuition before the \$100 fee was charged. Armstrong stated that the purpose of the new

policy is to help both the University and the stu-

day of the old grace period.

Although there is now no official grace period, Armstrong said that the \$100 fee will not be immediately assessed to a students account because it will take the University approximately two weeks to determine whether the delinquent account is the students fault. Therefore, the differment agreement will become void if tuition is paid during this

The new policy was instituted by the Tuition and

Fees Committee on Armstrong's recommendation. dents. "We're trying to get tuition payment agree-Students were represented in this decision by one ments taken care of in the mail." This will help the SGA representative who sits on the Tuition and provide less hasale for the students by eliminating

Fees Committee. While students who have pre-registered are being notified of their bill 30 days in advance

of the first day of class, students who register for classes at the beginning of the semester will be forced to sign the deferment agreement as they receive their new bill, Cherie Armstrong, Director Armstrong said that the extra time for these Student Financial Services students to come up with the money is the tuition agreement itself. Add/Drop will be

handled in a similar manner, with students owing at the end of the Add/Drop period, although Armstrong says that Add/Drop normally does not change a student's account.

When asked whether this payment plan will make the University look more greedy, Armstrong said, "Students will always put payment off to the last minute." As in the past, students who do not pay their tuition before October 18, 1989 will be administratively withdrawn.

see TUITION, page 6

Inside the Avion this week

Aeronautica Classified Comics Campus News

Space Technology Opinions Editorial

On July 27th 1942, the P-51 Mustang thundered into service over Europe. On this date the infamous aircraft flew its first operational sortie.

Guest Editorial

By John L. Baker

It is with a sense of urgency that over the last year the aviation industry has been calling for strong federal leadership in establishing a comprehensive National Aviation Policy. The call was born of the frustration of years of watching U.S. civil aviation fall farther and farther behind in its ability to keep up with America's growing demand for air transportation. Little has happened in the intervening year that could be construed as progress toward such a national policy.

Until now. Last week, a resolution a year in the making was introduced into the lOlst Congress by Rep. William Clinger (R-PA), ranking Republican on the House Aviation Subcommittee, and Rep. Dan Glickman (D-KS), co-chairman of the Congressional Aviation Forum, and 70 cosponsors, including William Lehman (D-FL) and Lawrence Coughlin (R-PA), Chairman and ranking Republican on the Transportation Appropriations Subcommittee.

Within a few weeks, the Resolution will be introduced into the Senate by Sen. John McCain (R-AZ), ranking Republican on the Senate Aviation Subcommittee, and Sen. James Exon (D-NE), a senior member of the Subcommittee, and 13 co-sponsors.

A dispassionate look at the circumstances confronting civil aviation at the national level would indicate that we have simply squandered a year--with little or no progress made towards expanding the system in any meaningful way.

And there is plenty of blame to go around. Responsible to a large degree are all of us in the aviation community. We have lacked the courage and the vision to set aside narrow, short-term benefits to ensure the long-term health and vitality of civil aviation.

But we in the aviation community are not alone if we are to assign responsibility or blame for the failure to keep up with the demand for quality air transportation. Congress and the Office of Management and Budget-who have taken the trust out of the Trust Fund-have, by impounding, systematically underfunding and treating the Fund's surplus as a gigantic pork barrel that would fund every half-baked scheme that strikes a politician's fancy, contributed mightily to the inadequate progress made in the nation's aviation system. To this group add those local politicians who, in an attempt to buy votes, have squandered the wonderful resource aviation represents by equating airports to garbage dumps and nuclear waste sites.

Blame also those both in and out of aviation who, for their own purposes, have used the media to inflame, confuse or distort aviation's generally outstanding safety record. And those in the media who, with a view towards sensationalism, have allowed themselves to be used in such a callous manner. It has become fashionable, as the result of some fairly sensational press coverage, to see only 400-passenger airliners as contributors to the nation's air transportation needs, we have a



Letters to the Editor

Thank you ERAU

To the Editor:

in 1981, the opportunities and involvement bestowed on me have been numerous and rewarding to say the least. I have advanced my-the entire ERAU body! self through many different scopes. Respectfully yours, in the aerospace and aviation related fields. June 7, 1989 was the highlight of my growth since my graduation from ERAL - I have secured a position as a Quality Inspector with Rocketdyne Division of Rockwell International, Space Shottle Main Engine Division at the Florida

Words alone cannot overwhelming pride I time. I could go on a you about my pur since 1981, his it we tire book. I feel componed sawilla

send the entire working body at ERALI this note with sincere thanks for providing me with the initial Since my graduation from ERAU knowledge I sought which in turn opened all the doors for me since my tenures began in 1981.

I want to express my grantude to William J. Mond Jr.

Ticket to ride

To the Editor

I am curious about tactics of our Safety and Security Department When a student parks on campus, they are fully capable of locating John F. Kennedy Space Quiter in the student's name, box number, and of course they are capable of making charges to our student accounts. They seem to lose their skill for such matters however, when it comes to seeing if the student has eally purchased a valid parking

There are a number of reasons why a valid parking sticker may not be visible to our safety personnel. For instance, those who drive a converible, and leave the top down may have properly displayed the sticker on the back window, but it is temporarily out of sight. Next there will be a rule saying that convertibles must leave tops up. Other people choose not to put the sticker on the car at all. Those who own really nice cars may not want to have the sticker on the car. Besides, the stickers are capable of being removed without destroying them, so they are no safer on the car than on the dash of a locked car. Lastly, there is some advantage treated with open arms in this fair

Thave a sticker, and though a is not

technically "properly displayed", I prefer to place it on my dash instead of on my car. If I should forget to place it in the window, and the safety department takes the time to look up my life history, why can't they just check their records and see that there has been a sticker issued and that it goes with the make and model of the car?

Ticket to Park

Editor's note: Letters appearing in the Avian, do not necessarily reflect the opinions of the newspaper or its staff. Letters submitted may be edited for brevity and may be printed provided they are not level, obscene or when out and around town, not to libelous Latter wetters shall confine be identified as an Embry-Riddle themselves to a single topic. All letters student. We don't always get must be accompanied by the signature of the writer. Numes may be withheld in regions at the discretion of the

Student Forum

The Avion asks: What is your opinion of the school's new tuition payment plan?



Goett Waxman This just adds more pressure for to the students to come up with eash. Another turn of the screw.



Maurice Cadaval Payment should only be due after your final schedule is made, in order not to complicate things.



James Russonello I don't have any complaints However, I have not recieved any notice explaining it.



Steve Worth If (Embry-) Riddle is trying to make things more difficult for studenti and complicate tuition procedures, they will succeed.



Jovlyn Fraser It will make it extremely difficult for students who have financial difficulties to afford this institution.



Dan Ruckert

We need a payment agreement that you can make small payments on your account without being penalized

Advertising Manager

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Dr. Roger Osterholm

This startling insight is usually delivered by some "expert" in an attempt to rationalize the increasingly severe breakdown of the air transportation system in terms of both hirport runway shortfalls and the abject disaster seen in federal attempts to modernize and expand the capacity of the air traffic sys-

If we are to have a "national system," we must find a way to accommodate the various classes of machines, each with unique capubilities and each with special contributions to make to the system.

It is important from the public's perspective to recognize that all classes of aircraft make a significani contribution to the American

The perception must be changed that small airplanes are the cause of delays at major airports. The fact is that general aviation does not contribute in any measurable way to the aviation gridlock we read about in the national media. If general aviation went away tomorrow, there would be no appreciable relief from the mess that exists on the nation's major airports and in the airspace surrounding them.

If we allow this pervasive attitude to persist, real damage will be done to the American public's ability to travel by air.'

What is overlooked is that biasing access to airports and airspace on the basis of aircraft size will reduce whole sections of the country to second-class citizenship. Travelers in such areas will be denied the ability to travel in the nation's intermediate and long-haul transportation system. We cannot-must not-allow this to happen.

In the last 10 years America has failed to invest in the public infrastructure outside the defense establishment. This frightening circumstance has prevailed at the federal, state and local levels.

Witness the mexorable deterioration of our roads, bridges, harbors, schools, research facilities, and most importantly from the aviation industry's perspective, airport maintenance, expansion and cre-

When this situation is coupled with federal deregulation of the airlines, have defined the prescription for aerial gridlock. Throw on top of this pile irrational scheduling by the airlines-bunching traffic into a relatively small number of available operating hours; extensive hubbing as standard operating practice, compounding the already insuperable problems with thou-

sands of daily flights on which passengers simply pass through hub locations; and the absolute refusal by many local politicians to recognize the overriding national interest in expanding existing facilities; and you have defined the parameters for gridlock, economic distanter, the potential for duminished safety, increased public dissatisfaction, and ultimately political overreaction.

If we are to systematically address the solutions to these probtems, we must begin with an indepth national dialogue that confronts head-on the gut issues that have been consistently avoided at both the national and local levels

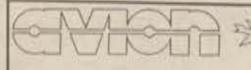
If air transportation is a mational system, it must serve a broad crosssection of the population and all sections of the country. This can only be done by talloring it system to accommodate the disparate sections of the country and allow aircraft use that is suited to the popu-

lation densities in each area. Must we have a National Aviation Policy that integrates all the competing interests into a common. mutually agreed upon act of goals and aspirations? Again, if aviation is a vital, national public trutsportation service, common sense seems to demand that the system be standardized across the nation. This

brings as head-on into the debate concerning the preeminence of the national versus local interest-the classic question of federalism:

"Clearly, we cannot have an effective national system if one of two vital components is subject to local whim with different aspirations, widely differing operating rules and noise parameters, and varying perceptions of an airport's pulity and its impact on focal definitions of quality of life. Will this effort provide magic hear-term solutions and retief? No. But there are interim steps to be taken that will buy in additional time. We can, if the resolve is there, quickly expand capacity at existing airports, buy intarim air traffic control equipment, standardize nome and other environmental requirements, and refine existing aviation operating rules.

Will these steps take us comfortably into the 21st century; Again, the answer is no. But they will allow us to survive with minimum burdens on both the user and the operator involved in aviation. And they will allow aviation to continue to serve the nation's transportation needs us we build, following a well-defined strategic policy, for the future.



@Avion Newspaper

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Campus News Editor David Fekke

Diversions Editor Brian Gerk

Space Technology Editor

Mike Fried

This work 's staff! At of the Above

The common actions and the Enterior are those of the majority of the Enterior Board, and no not commonly received. This is the commonly, the status of the majority of the majority of the status of the status of the sense, who is been find.

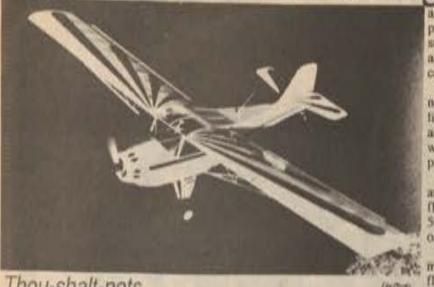
(among supposing to the According to Performancy Sense; the operation of the University, the According to the majority reflect the operation of the University.

have of the promote basing. Our many magnessed alternations are those of the water, which is specifically defined by reflect the opposition of the corresponder or to work a source to the corresponder or to the corresponder or to the corresponder or to work a source to the corresponder or the corresponder or to the corresponder as bending may be writted for towardy and may be person be provided they are not used, considere to the bour. Letter a small confine therefore to a single typic, All artises must be accommoned by the signature of the artise feature may be sething to respond at the discretion of the finite.

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Certificate not meeting goals



Thou-shalt-nots...

Will the recreational pilot's license fly under the weight of all its restrictions?

by Kress Latham Aeronautica Editor

Samuel K. Skinner, Transportation secretary for the FAA, recently resurrected a notice of proposed rulemaking that had been collecting dust in the FAA's filing. system since 1985.

The proposal was for the creation of a new, recreational pilot's license directed at individuals who had no desire to fly in or out of controlled airports, or at night, or to fly for wide ranging personal transportation.

These individuals may have their own homebuilt or an old 1-3 Cub that they're restoring and a regular pilots licence is overkill for their needs.

The FAA has, as unusual as it may sound, taken a bit of

proposal. Should one of these restricted pilots wander into controlled airspace over a busy airport, well, you can guess the implications.

The recreational pilot will have a new bible to abide by. Although the license will allow the operation of aircraft with up to four seats, the pilot will only be allowed to carry one passenger.

The aircraft must have fixed gear and a maximum of 180 HP and all flights must not exceed a distance of 50 nautical miles from their point of

Visibility must be no less than 3 miles at all times and no VFR on top flight will be permitted. No flight before dusk or after sunset is allowed and altitude is limited to 10,000 feet

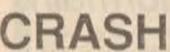
MSL, at least until the terrain rises above 8,000 feet, in which case flight up to 2,000 feet AGL is allowed.

The recreational pilot rating does not meet International Civil Aviation Organization standards, therefore, no international flight is allowed.

Each recreational pilot carries a logbook endorsed by a CFI at a specific airfield. This airfield becomes the pilots home base which he or she must keep within 50 nautical

A third class medical is required to attain the license and a written and practical exam must be passed.

The list of reg's reads on, and one must ask him or herself if the difference of 13 hours and \$350 to get a daytimeonly restricted private pilots license warrants the practicality of the recreational pilots license.



(continued from page 1)

whatever control they can out of the aircraft," said NTSB spokesman Jim

in emergency landing at Sioux Cateway Airport, pilot Al C Haynes told the control tower, Whatever you do, Keep us away from the city," Burnett

minutes of the flight, desperately seekquoted. The flight crew were in communication with the airline's experts for the last 25 minutes of the flight, desperately seek ing advise for help controlling the crippled airplane. "If you have my suggestions, holler," one of the three crewmembers radioed to workers at United's maintenance headquarters.

Forty-one minutes after the explosion.

of number two engine, Flight 232

crashed short of the runway as it wied

to land, killing at least 109 people.

Apparently, the DC-1O's rear engine exploded in flight, sending compressor blades slicing through the Seven minuets before he attempted aluminum structure of the aircraft and

pled airplane ...

severing hydrautic plumbing of all

failed engine was involved in repairs

the day before the crash. But the su-

pervising federal investigator deter-

mined Friday that there was no indica-

tion that the work "would have or

could have" affected the engine in

It has also been established that the

three separate hydraulic systems.

Wednesday's crash,

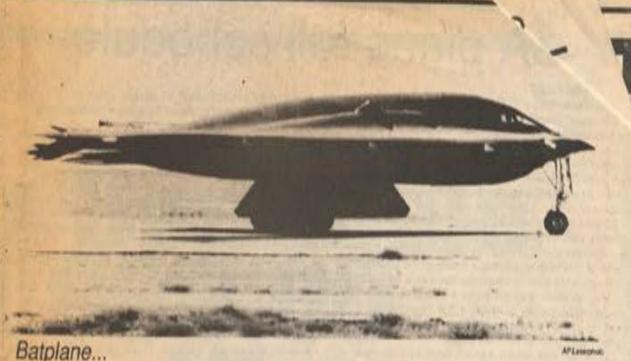
The work was done to a pneumatic system attached to the General Electric CF6-6 jet engine. This type of

engine, used exclusively on DC-10 and Lockheed The flight crew were in communication Tri-Star aircraft, have had six previous failures in with the airline's experts for the last 25 which damage extended beyond the engine.

ing advise for help controlling the crip-According to the engine builder and the FAA, the CF6-6 has a very good "unck record. David Lane,

Spokesman for General Electric's aircraft engine division, said 469 CF6-6 engines are currently in ser-

He said they show a rate of one departure delay or flight cancellation due to an engine problem for every 2,000 flights.



Flat profile and engines tucked well within the wings keep this bird invisible to radar screens. This defense is new, but the design is old.

The B-2 has an operational range of more

10,000 nautical miles with the use of aerial

refueling.

STEALTI

(continued from page 1)

cess of 40,000 ft at speeds of nearly 600 miles per hour. Northrop was ordered to scrap the remaining prototype and all seven of the YB-49's that were in various stages of production, after a crash in the Mojave Desert killed Air Force test pilot Glen Edwards. The Mojave Desert Air Force base that now bears his name has become a focal point of advanced flight test research.

slightly longer than an F-15 fighter. It is powered by four General Electric engines mounted on top of the wing. than 6,000 nautical miles at altitude and over According to the Air Force, the engines are a derivative of those currently used on the F-16 and F-14 fighters.

Since an aircraft that cannot be seen does not need to

rely on speed as a defense, the bomber flies only at subsonic speeds. It is capable of hugging the terrain closely or flying at altitudes as high as 50,000 feet. Air Force sour-

The B-2 has an operational range of more than 6,000. nautical miles at altitude and over 10,000 nautical miles with the use of aerial refueling. The aircraft can carry both conventional and nuclear weapons, the Air Force said.

The test flight lasted two hours with the landing gear always in the extended position. Northrop test pilot Bruce J. Hinds, 50, and copilot Air Force Colonel Richard S. Couch, 42, said they flew the bomber at three speeds and guided it through numerous turns to test its stability. South C escribed the B-2 as "a very nimble aircraft and the landing approach was "rock" steady.

Now that the B-2 is back safely on the ground, military and civilian aviation experts will began evaluating data physical examination of the aircraft. The outcome of these tests will be the determining factor in when the date will be set for the next phase of flight testing.

"They basically will be testing all of its systems to make sure everything is fine," said Air Force spokesman Lt. Col. Jan Dalby, "So far things look real good."

Dalby said the analysis of the flight will be conducted The stealth bomber is 17 feet high and 69 feet long, unly at the base under a shroud of secreey. There are "hundreds,

perhaps thousands of readings" to be analyzed, he said. "They are going to be studying the structure of the aircraft: How it withstood turns, the impact of landing," he said.

They will study the avionics: How did it fly? Did it do what it was supposed to?"

Information gleaned from the inspection and analysis will be used to prepare the bomber for its next flight, probably within the next four to six weeks, said Dalby. The test will be kept secret for security reasons.

Over 5,000 Boeing employees have been involved in the stealth bomber project, along with nine other Washington state companies,

It has been 42 years since the last, or original, "flying wing", cast its batlike silhouette against the sky over the Mojave desert. At that time, it must have seemed to many observers that such an awkward looking contraption would never find a place in the current bomber regime.

After all, how could an airplane without a fuselage expect to fly?

Maybe that original YB-49 just needed some time for from the plane's on-board computers as well as through the rest of the world to catch up.

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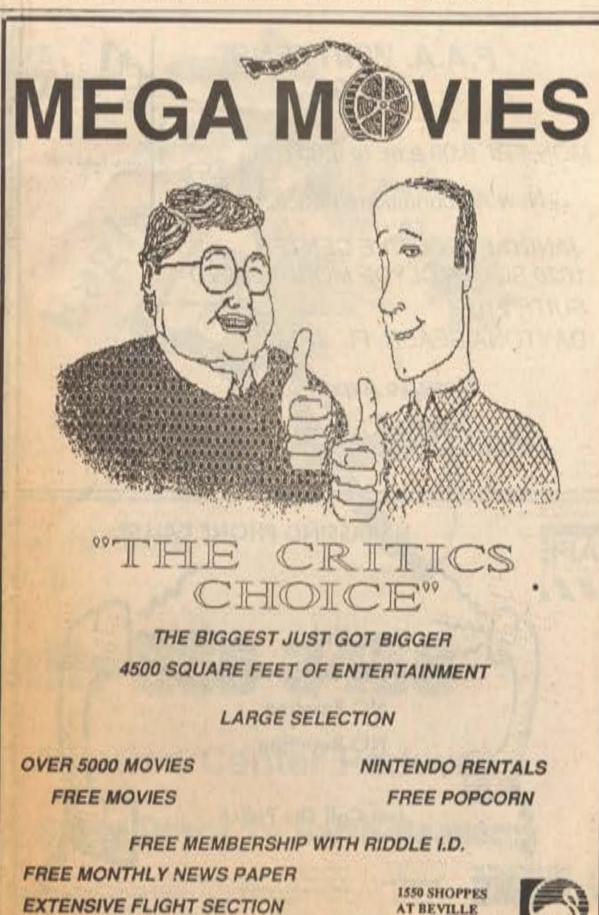
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SAVE SOMEONE'S LIFE





ASA plans full schedule

Michael Fried

pace Technology Editor

The space shuttle is back infull swing with a total of planned launches for this year and nine for 1990.

Columbia will be the only shuttle launched this immer on a DOD mission planned for early August. he STS-28 mission will carry a crew of five while the tails of mission duration and exact launch time are

STS-34 will follow in October 12 with the launch of tlantis with its Galileo probe destined for Jupiter. The ve man crew will launch the nations second planetary robe of this year signifying a return to the planets.

Discovery's fate is currently unknown as the pilot or that mission was killed in a plane accident. The nission is currently scheduled for November 19 on nother DOD mission, NASA will try to find a eplacement pilot in time for flight.

Columbia will return for an important mission in December for the Long Duration Exposure Pacility LDEF) retrieval. The satellite is in danger of falling out of orbit and burning up in the atmosphere. STS-32 annot afford a long delay as the time becomes critical. LDEF was launched five years ago and has been

stranded in orbit because of shuttle setbacks. The five man crew will also launch a Syncom 4 satellite early in the mission.

In 1990 NASA has planned nine launches with the first to begin on February 1. Atlantis will fly a DOD mission with the specifics on the mission being

Discovery will return on mission 31 that will deploy the Hubble Space Telescope. The HST has been wanting for its taunch date for years and will allow astronomers to look far shead into the future

The next mission will be on April 26 using the shuttle Columbia for and astronomical observation mission. The flight is planned for nine day which will be the longest post-Challenger mission and also carry

STS-37 will fly the Gamma Ray Obervatory on June 4 using the shuttle Atlantis, From then on, five more missions will take place.

NASA is planning a total of eight flights in 1991 and a jump up to twelve flights in 1992. The reason for the jump is that the new shuttle Endeavour will be making its debut on February 2 of 1992





The crew for the upcoming STS-28 space shuttle flight poses for their crew portrait. The mission is dedicated to be a Department of Defense flight, which will reduce the amount of detailed news available for the mission. The STS-28 crew consists of Commander Shaw, seated cneter front, pilot Richards, seated left, and mission specialists, left to right, Brown, Adamson and Leetsma. This launch of Columbia will be in early August.

Magellan still operating normally engines and thrusters on the update its navigational system.

by Michael Fried

Space Technology Editor

spacecraft Magellan continues to perform normally on its way to the planet Veous following the launch from the shuttle Atlantis in May.

On may 21, four of the right thrusters were fired to correct the spacecrafts trajectory toward Venus.

It was the first of three maneuvers to keep Magellan on course for it rendezvous with Venus in August of 1990. However, the maneuver went so well that the next planned maneuver will be less than anticipated. The third maneuver is set for August 1990 when the spacecraft is inserted into orbit around Venus.

The first maneuver only required 4.2. kilograms of the liquid hydrazine fael used by the rocket will get a reference off the stars to away as 3.7 billion miles.

spacecraft. Engineers had planned for a possible 20 kilogram use. If there is a big savings in fact that will translate into a longer stay time in Venus orbit. The current mission duration is a 243 day mapping

Magellan will be taking a 15 month craise. During that time spacecraft teams will do a daily checkup of the vehicle.

On a typical day, the team will check six major subsystems and discuss the results to determine an impact on the mission.

Every two weeks engineers will opload a new set of commands for the spacecraft's command and data: system.

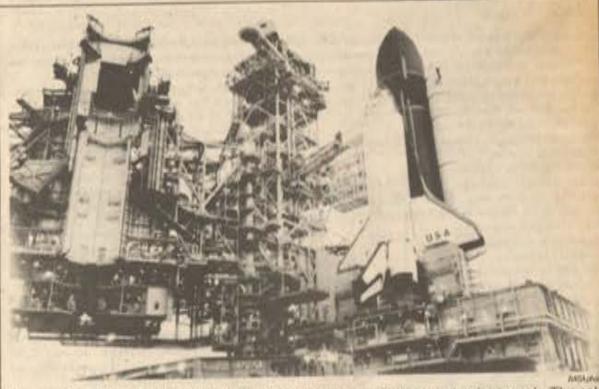
Also, once a day, magellan performs a star scan. This involves torning the spacecraft to a computed position and the vehicle

The Deep Space Network is the main listening post for U.S. interplanetary mission and a receiving magellans data.

The DSN uses large antennas located on three continents of the U.S., Spain and Australia. The network's operations control center is at the Jer Propulsion Laboratory.

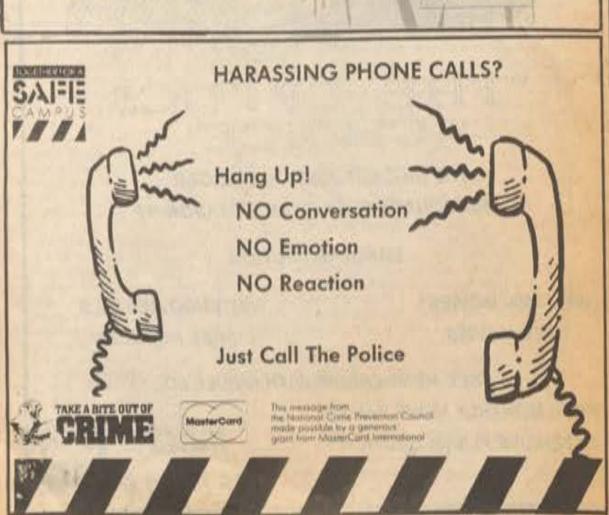
The DSN provides the tracking information on course and direction of the flight, velocity and range from Earth for all NASA's unmanned mission in deep space: It receives engineering and science telemetry and sends commands for spacecraft navigation and scientific instrument operation. In addition to Magellan, the DSN also is tracking Voyager, Mariner and Pioneer spacecraft.

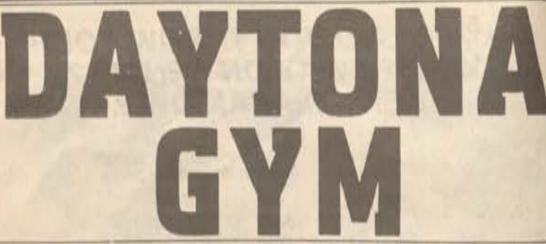
The DSN is expected to receive Voyager spacecraft data from as far



The space shuttle Columbia arrives at Pad 39-B early in the morning last week. The rollout to the pad had been delyed several days due to difficulties in the orbiter being mated to the external tank and solid rocket boosters. Columbia is dedicated to fly a Department of Defense flight in early August. The exact launch date will be determined later this week by NASA and contractor managiment. As the Avion was going to print, possible anomalies were discovered in liquid oxygen valves within the main engines that plagued the Atlantis mission earlier this year. Kennedy Space Center employees are working to determine exactly what the malfunction is and how it should be repaired. Columbia must Jeave the pad by late August to make room for the October Galileo planetary mission.

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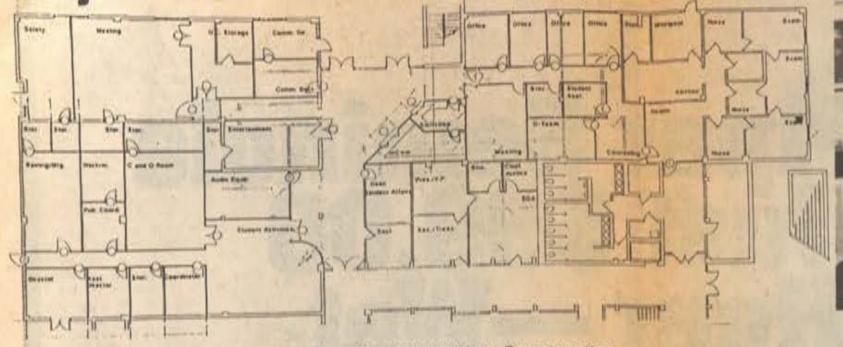


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Major U.C. facelift is underway



First Floor Demolition/New Construction

by Brian Cerni Campus News Editor

Construction will begin soon to renovate the first and second floor of the south side of the University Center, Bomar Construction will be the contractor for the job and work should be finished in 3 to 3 1/2

Dr. Jim Harrison of Facilities Planning stated that the remodeling is being done to better utilize the space made available by the new U.C. addition. The project will include the relocation and demolition of walls to increase space for the Health Services To minimize conflict, the project will be completed

SGA offices.

Dr. Harrison added that the plans were drawn up after "All occupants stated their needs." Although the new configuration should relieve many of the logistical problems of the past, Harrison still contends that "Our space (in the U.C.) is not adequate for the activities which go on.'

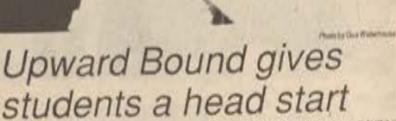
When asked about the problems of renovating a building which is still occupied, Harrison said that the situation will probably try everyone's patience.

Center, Career Center, Avion/Phoenix office, and in stages, and personal will be temporarily relocated to the portions of the U.C. not being worked on while their new offices are completed. The lobby and hallway areas are scheduled for renovation first so that these heavy traffic areas can be clear when the fall semester begins.

Because cost estimates are still being revised, Harrison could not give a set figure on the price of the 14,300 foot renovation, but estimated it at about \$300,000

(continued from page 1)

SGA President Jeremy Greenidge commented on the policy saying, "I certainly find shocking." Greenidge mentioned a new tuition payment policy at The University of Inh which postpones payments until after they've dropped or added classes. In the past, students would pay their fees, then drop or add classes, and as a result, be confused about the status of their, financial account. Greenidge said. 'It goes totally against what The University of Utah



by Brian Cerni Campus News Editor

The six week summer session of the Upward Bound program has brought local Daytona teens to the Embry Riddle campus for a program designed to motivate high school and ir, high students. Because the Summer B term tends to be the slowest enrollment wise, Upward Bound takes advantage of that, and gives their students a chance to utilize the facilities here at the Daytona campus. Beginning June 25, the session will last till August 3. During due time, the students will take classes, and participate in projects and inhletic activities. The students also get an introduction to dormitory life, residing in dorm one.

Carol Grandinetti, Upward Bound Project Director, said that Upward Bound is a federally funded program for low income students and first generation students. First generation students are those whose parents have not attended college, including Embry Riddle, there are 8 Upward Bound programs in Florida and 420 nation wide. Although many Embry Riddle suidents think that Upward

Bound is a new summer camp type or ganization, the well established program has actually been on campus for 14 years, and continues to do a superior job in fulfilling its goals. Although Grandmetti feels Embry Riddle provides an excellent environment for the program, she is not sure why the University was initially chosen.

This year 65 students from 3 local high schools and 4 junior high schools are enrolled in Upward Bound, Along with the summer activities, the students also participate in a tutoring program during the regular school year where they spend 18 Saturdays at Embry Riddle receiving instruction from local county teachers

Grandinetti stressed that. The Program belps to portray college life. Because Upward Bound boasts a 98% success rate, meaning that 98% go on to college, the experience in a college environment is very valuable to their performance as students. Grandmetti added that the 2% not attending colloge enter military service.

The Daytona Beach program is unique in that it is the only program in the see BOUND, page 8

50/6 hrs.

50/6 hrs.

100/6 hrs.

Ninety nines pay lasting tribute

by Phyllis A. Salmons Copy Editor

John Paul Riddle, the late co-founder of Embry-Riddle Aeronautical University, was memorialized once again in the International Forest of Friendship, Atchison, KS. The Embry-Riddle Aeronautical University Chapters of the Ninety-Nines have sponsored a bench in his name along a pathway known as Memory Lane. Susan Selig of the Daytona Beach Chapter and Amy Herbert of the Prescott Chapter of the Ninety-Nines attended the ribbon cutting ccremony on June 17

In 1988, John Paul Riddle was honored by having his name placed in Memory Lane. The suggestion to memorialize John Faur Kiddle with a benefit if his harde. Susan Selig, Daytona 99's, Nora Jessen, In- did to clear up this type of sysmemorialize John Paul Riddle with a bench in his name



see BENCH, page 8 ternational 99's Amy Herbert, Prescott 99's 1cm.

Notices

Graduating Seniors with Journs

If you have borrowed from the Perkins/National Direct Student Loan Program and anticipate degree completion during Summer B, you must complete an exit interview before leaving the university.

An exit interview is required by the U.S. Department of Education for every student loan borrower under the Perkins/NDSL Program during his/her last semester of enrollment as at least a halftime student. The purpose of the exit interview is to provide you with repayment terms for your student. Joans as well as benefits available to you during repayment of you loans. It is very important that you be fully aware of your Rights and Responsibilities as a student loan borrower to avoid any future possibility of

If you are anticipating degree completion by the end of Summer B, the group meeting is scheduled for August 10, at 10 a.m. or 3 p.m. in Davidson Theater (A-

You must schedule one of these sessions by calling the University Collections Office at 239-6040.

If you have questions, call Sherry Cunningham, University Collections, 239-6040.

Avion needs Sports Personnel for Fall

The Avion is in need of a sports editor and sports reporter for the Fall Semester. With Embry-Riddle's entrance into varsity sports, there is great opportunity for sports writers and photographers. Intramural sports and non-varsity team sports will give ample opportunity for publication, If interested, contact a member of the editorial staff of the Avion.

December '89 Graduation Applications

Applications are being accepted at this time at the Registration and Records Office on the second floor of

If a prospective employer requests a transcript for a job interview, we must have a written request from you before the information can be released. Stop into the Registration and Records office for request After you leave, NO REQUEST can be done without a written request and a \$2.00 fee, if an Official Transcript is needed.

Lecture Note-Taking Tips

This session will provide information on how to efficiently take legible, helpful lecture notes. Wed, July 26, 1:30p.m. - 2:30 p.m. in the Common Purpose Room of the University Center.

Avion needs reporters and photographers

Reporters and photographers are needed in the areas of campus news, space technology, aeronautica, sports and diversions. Writing for the Avion provides invaluable experience in writing and dealing with administration, faculty, staff and fellow students. Communication skills are the most important talent you can offer your future employer. The Avion will provide you with experience expressing yourself. Contact a member of the editorial staff for information.

Free Tutors Available

The Mathematics and Physical Science Department provides free tutors from 10:30a.m. to 3:30p.m. weekdays in Room A-106.

Library Hours for Summer B

Mon - Thurs Fri	7:15a.m 10:00p.m 7:15a.m.
6:00p.m. Sat 6:00p.m. Sun 10:00p.m.	9:00a,m.
	1:00p.m.

Campus Recreation

Anyone interested in participating in a swim meet, miniature golf, or 1 on 1 Basketball, should sign up now at the rec, office. Deadline for swimming and basketball is Friday, 7/28. Miniature golf deadline is Wed., 7/26. There is a \$4,00 charge for golf, and it will be held at Legendary Golf of Friday, 7/28 at 6:30P.M.

FAA Written Exams

Embry-Riddle will administer FAA pilot and/or Identification. instructor exams for the following:

Questions/pmes allowed Exam

L. Private Pilot-Airplane

0/6 hrs.

2. Commercial Pilot-Airplane 00/5 hrs. 3. Flight Instructor-Airplane 00/6 hrs. 50/4 hrs. 4. Fundamentals of Instructing Ground Instructor-Basic 00/6 hrs. 6. Ground Instructor-Advanced 00/6 hrs 100/6 hrs. 7. Airline Transport Pilot-Airplane 8. Aircraft Dispatcher 00/6 hrs 9. Instrument Rating-Airplane 6 0/6 hrs. 10. Flight Instructor-Inst-Airplane 50/6 hrs. 11. Ground Instructor-Instrument 50/6 hrs. 12. Flight Engineer-Basic

July 29 at 9:00a.m. in H-113 GRW Complex

13. Flight Engineer-Turbojet-727

14. Flight Engineer-Turbojet/Basic-727

Students intending to take an FAA written exam are required to sign up in Office D-200 or call extension 6800 prior to the examination day.

At the time of the examination, the student will be required to bring a receipt from the Cashier's Office, a Written Authorization Form and present a Personal



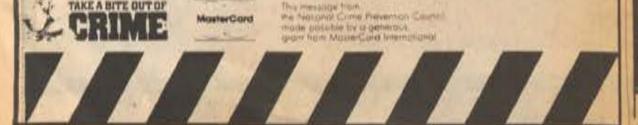


A ways drive with doors acrea and windows up, or at least partially up. You don't want an uninvited passenger

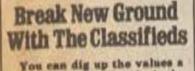
Park in well-lighted, busy areas, close to where you're going.

Freet your car like a good frend-pamper it. Regular check-ups, plenty of gas, good running condition. Check those tires while you're at It.

your car ales in spite of it all, pull off to the side of the road—hood up, doors coked. "Help! Call Police" pariner in rear window or light colored rag fled to arver's door naridle. Dan't unlock your door or accept a ride from any passerby



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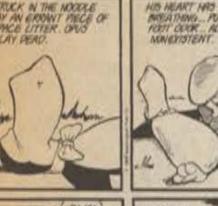
THE CAR

THE INEVITABLE





















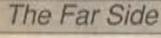












Gary Larson



Bloom County

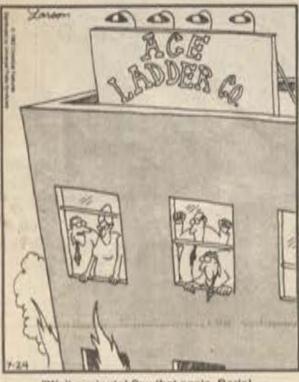
Berke Breathed











"Wait a minute! Say that again, Doris! . You know, the part about 'If only we had

"And notice, gentlemen, the faster I go, the more Simmons sounds like a motorboat."

+ Autos for sale

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1985 Truns Am Automatic ismon paint, PW, PHD, PL T-tope Tint, Dignal nerso, custom wheels. Asking \$8500 Call Nick at 252-0081

1981 Chevy El Cartino A/T, A/C, power steering, no mut, need to and immediately. \$3100 Call Rob 673-8436

1986 Blue Chevette sport, 4 speed only 1 owner, A/C, only 33K. Drives and looks mest. 5270Ω Call Rob at 673-8436

1977 Corvente T-top, A/C, P/W. All numbers match, Very clean, great stereo. Asking 37800 Call Rob at 673-8436

Sporty - Ford EXP 1984, excellent condition, under 50,000 miles. Five speed, som roof, stemo/cassette player, \$4,200 or best offer Must Selli Call 767-3544 - ask for Tr-

1978 Chevy Nova. 305 Automatic, Dual exbuus, \$750 o/b/s. Call 788-2860.

1976 Window Van, \$1000 o/b/o, 318, Autermine, Air. Ice Box Bed. Call 788-2860

'75 Frebird Formula. In great condition mechanically - body rough. Phons 253-3542

1971 VW Varu Excellent body, no rust, A/C, new brakes & clutch. Graduating. must sell. Asking 5900. Call Greg after 7p.m., 257-7661.

1985 Buick Rogal Somerunt: White - beign interior, 2 door, excellent condition, digital dash, Asking \$5900. Call Lynos 239-6228 (days) or 255-3404 (nights and weekmils).

- Cycles for sale

1985 CISX'R 750: Low mileage. Very well maintained and in excellent condition. Extras included! Leaving must self. \$3200. Call Georgie at 253.

Motoroycle for sals: Honda XL 600R, Ilacallest on-off road bike! Only 2,600 miles Great condition. \$2,100. Includes Bieffe Motorcross Helmet. Call Alex at 257-2027 after 4p.m.

+ Misc. for sale

Apple IIE, like new, with graphics espetility and thousands worth of software. Moving, so is must go - need the cush. Call to make me an offer! David at 258-6137, leave a message.

For sale: Marching rouch, 4 chair (den set). cle. Grant for beach or action \$125, A.1 Good condition. \$50 or best offer. Call 756-ocedation. Contact Toly disough like C217

Graduation sale: Drafting board and kit, seasch, loverest,

directe seat, deak, their, lamp, rowing machine - at seen on T.V., T.V. Console, and stereo rock, Call 673-6492 or 235-5027 any-

Porniure for sale. Desk and lump (oak wood) \$40, 2 known chairs, excellent shape \$15, living room lamp with attached table \$20, living room thair, metal frame and conhion \$15, book stand or wall unit - excellent shape \$40, coffee table (all wood) \$15. Call 760-1339 or leave a message.

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 advertis ing 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 adver-
- tiser must be included for the ad to run. Ads will run for two issues and may be renewed by filling out another classified ad card.
- No classified ads will be accepted over the phone. For more information, stop by or call the Avion office at (904)

239-6049 For sale: Queen size waterbed with bead-16" IROC Z Wheel and 16" VILSO Eagle

\$70 time. Call Tim at 255-9366 or contact. Scars "Journey" on off stud 10 speed bicy-

G.T. tier. Excellent condition - \$250 - wheel.

board, sheets, and matress pad, 580, Must tell, moving. Hed is in excellent condition!!! Moving, must sell. Call 258-6464 after 11

For sale: Waterbed - kingsize with headboard, shoets, and matress pad. 5100. Call. 660-2298 or ERAU Bux 5498.

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Moving sale (must sell) Water bed, queen sized, almost new 590. Oak desk 550, White tile and table \$35, lamp \$25, lovernat \$60. Call 258-5552 leave message.

For sale: Living coon ant, excellent condi-tion! Includes couch, chair, coffee table, and two and-tables. Solid oak wood. Like new, most see!!! \$200 Call 258-6464 after

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BUCKLE UP -FOR SAFETY.

(continued from page 6)

member of the Ninety-Nines. The International Forest of Friendship was begun in 1976 as a bicentennial gift to the population of Planet Earth from the City of Aichison and the International Ninety-Nines. The Forest is the only living, growing memorial to the history of aviation and истоприос.

The Ninety-Nines is an organization of women pilots founded by Amelia Earhart in 1927. In charter membership of 99 has grown to be hundreds and there are chapters all over the world.

The forest graces a quiet, sonny slope south of Aichmon at Warnock Lake. The lovely site is dedicated to a special dream of Amelia Earhart, peace on Earth and the fellowship of mankind.

The International Forest of Friendship has trees from the 50 United States and from 41 other countries where the Minety-Nines have chapters. It has a tree grown from a seed which traveled to the moon aboard Apollo 14 in 1971. The "Moon Tree" stands in the center of a memorial to the 10 American astronauts who have lost

their lives in space exploration,

Memory Lane is a walkway honoring more than 400 individuals who have contributed to, or are connected in some way with, the aviation and/or aerospace industries. Bronze plaques in the waikway bear the names of honores. including Charles Lindborgh, the Wright Brothers, Chuck Yeager, Bob Hope, Will Rogers, and Sally Ride.

The idea for the International Perest of Friendship is attributed to Wells who thought it would be interesting to have trees from all over

the world planted in a forest setting and have the roots intertwine in world peace. The forest began with a \$5,000 federal grant and private contributions for the project.

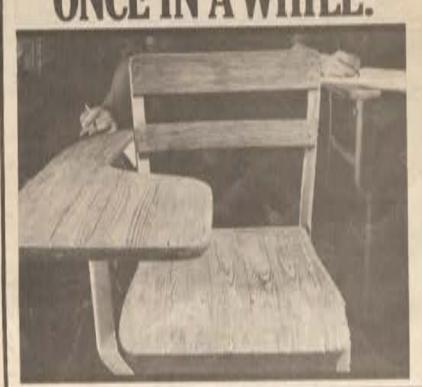
Care of the trees is the responsibility of the Atchison Park Department. The Forest was designed by James J. Nighswonger of the Forestry Extension Service of Kansus State University,

Archison, Kansas is the site of the International Forest of Priendship since it was the birthplace of Amelia Earhart, Earhart, who first soloed in 1920, was the first female BOUND-

(continued from page 6)

passenger on a transatlantic flight country where the students get a and the first female pilot of a chance to fly. Grandinetti said that transatlantic flight. She was flight is used as a motivational tool awarded the Distinguished Flying and each student can take trips to Cross after her 1932 transatiantic Orlando and Mayport Naval Air solo flight. Her unexplained disap- Station. pearance in 1937 in an attempt to

Upward Bound students also compete with the other 8 state programs in an annual athletic and gator Fred Noonan was also aboard academic mutch. Daytona Beach has won this competition the past four years.



After several years of intense study, a lot of college graduates finally learn something. They're not qualified for the job they want.

become the first woman to pilot a

plane around the world is still the

subject of much speculation. Navi-

that fateful flight

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There was a time when people only shot pictures.

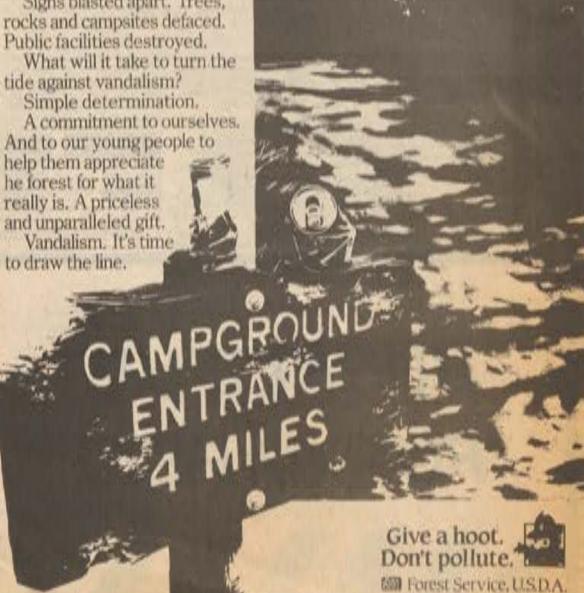
Over the past three decades, use of our nation's forests has surged dramatically.

But so has vandalism. Signs blasted apart. Trees, rocks and campsites defaced. Public facilities destroyed. What will it take to turn the

tide against vandalism?

And to our young people to help them appreciate he forest for what it

to draw the line.



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ty at the Ocean Deck.

Dance or listen to Daytona's finest band, "Whirlwinds" The sounds of the Islands, live Reggae at its best, 7 nights a week!

The Ocean Deck specializes in seafood, oysters, clams, shrimp, sandwiches, great drinks, beer & wine.

