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# Avion 1977-08-10

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NEW SERVICES IN UNIVERSITY CENTER

locatea ... Building. These duplications include These duplications include ing able to pay University lls, cash personal and payroll checks. This new service will eliminate check cashing in the Bookstore but t

Bookstore, but the Book of purchase. This change will relieve the congestion in the Book-

program

best shot

According to Christine Dan-

best shot." Scott Vogtritter, of Palatine, Il., and son of a United Air Lines Captain comments, "It was all just great. The school-work was presented so that new guys like me could get into it. The homework assigned by my light instructor and the others kept me going, but it really came through and helped a lot" Bob Smith, Scott's flight instructor added, "The extra efforts by the faculty and the students made the program more than worthwhile. You have to remember that the Sem-inar was in addition to an al-ready more than full time pro-gram at the University."

ready more than full time pro-gram at the University." Instructor Ray Belcher sum-med it up with, The enthusi-asm and talent were obvious. It was up to us to meet the chal-lenges of tight scheduling and

getting the most cut of every minute."

Minute." According to Bob Whemp-ner, E-RAU's director of Spec-ial Programs, planning is already underway for next July's Sun Seminar. "Sun Seminar '77 was

the best ever. We intend to surpass it, though, next summer with Sun Seminar '78."

Scott Vogtritter, of Palatine

**ERAU's SUN Seminar** a Solid Success

Eighteen of them soloed. All 20 would have, but FAA re-gulations said that they were just too young by government standards. Even if the remaining two and their instructors disa greed, that was the way it had

to be. The 20 youths were partici-pants in Embry-Riddle Aero-nautical University's (E-RAU) first Sun Seminar. The Sun Seminar program is designed i to introduce the sons and daugh-ters of professional aviators to career opportunities in aviation. The Sun Seminar students come from as far away as

from as far away as rame from as har away as Hawaii to participate in the pro-gram, which featured 35 hours of classroom and lecture in-struction, two hours of flight simulator time, and 13 hours

view of today's aviation world. A tour of the Kennedy Space Center and other nearby attrac-tions were also part of the program.



in the photo by PAUL HANSEN University is growing, it has store will ctill accept check for the amount outgrown the old system. And with this change added convenience to you the student

# **OSHKOSH'77**

at 3 p.

All of this is based on a new Because the

counting system. Beca

OSHKOSH, Wisc. -- Excitement and curiosity and swelling of the normal population twice its size is the result of the 25th International Con-

size is the result of the 25th International Con-vention and Sport Aviation Exhibition of the Experimental Aircraft Association. The curiosity of the Oshkosh locals is due to hundreds of odd-looking objects which have been hovering over this northeastern Western city this past week. The odd objects are a com-bination of the restored reinnants of past eras bination of the restored remnants of past eras in avaiton, mixed with some of the classics of the avaition age and more than 400 planes that have been made in living rooms, basements, kitchens and garages all over the nation. A quarter of a million people are expected to pass through the acres of planes anchored here this avaitable available to the source of the s

for this week-long celebration and watch air exhibitions in the afternoon. Places have been provided for the thousands of campers who will be at the show. Those who fly in on their own aircraft find a welcome mat rolled out at Wittman Field

There have been some 4,000 plane move-ments each day, according to the local ATC, since this event began.

Paul H. Poberenzy, president and founder Paul H. Poberenzy, president and founder of the Experimental Aircraft Association said, "There are many people who want to enjoy thu fun of this vast occan above us." Poberenzy, who started flying in 1936, is a retired Air Na-tional Guard Colonel who owns seven planes, including a P51 ho flew here from his home in Miiwaukeee. He has built 12 planes from

Many of the "golden agers", people who know much about the roots of aviation be-cause they have played some part in making its

history. Blanche Noyes of Washington, known as the dean of women in 1928 still holds her commercial license. She recalled that in 1930 she took John D. Rockefeller Sr. for his first and only airplane zide. Rockefeller was over 90 years old airplane not at the time.

1.

Another golden ager is Clifford Henderson who managed the National Air Race from 1928 to 1939, a period in which Charles A. Lindbergh

was a participant. Pilots from all over the U.S. are at the event. These include flyers from Flushing, N.Y. to

These include flyers from Flushing, N.Y. to Beinont, California. One individual, Bernard Gross, whose plane berrs the name "The Deaf Duck," named his aircraft that name because Gross is indeed deaf. He took two days to get to Oshkoih, stopping overnight along the way. To make his flights, he must follow another plane along the way. One cutom-huilt plane owner/builder is Bill Waugh, from Idaho. He suid, "YOu've got to have an understanding wife." His plane is a polished glowing champion blue and goldenrod yellow Pitts Special, a one-seater completed last Mey 3. Waugh said that it had taken him six years and three days to build this plane at a cost of \$13,000.

TRADITIONAL CEREMONY FOR YOUNG INITIATE - Flight Instructor Ray Belcher (R), anips Sun Seminar student Louise Laboda's shirttail zfter her first solo. (ERAU Photo by Bob Cos-

\*\*\*\*\*

# PASSENGERS REVOLT AGAINST BOAC

Forty-year-old Patrick Robnson, a passenger on a thor-oughly well delayed TriStar jet flight from Majorca, said of a passenger revolt which was "British Airways behaved so hadly we thought we had to do something."

Airline layovers are a world-Amine tayovers are a world-wide frustration, as seen in the following news release. A plane load of Britons, convinced that 19 hours for a two-hour flight carried the tradition of longsuffering too far, stiffened their upper lips Sunday and refused to budge until they were pro-

to budge until they were pro-mised half their money back. According to an AP release, police vere called to the Tri-Star jet but the 290 passengers sat their ground, refusing to leave the jet until a senior British Airways officer promis-ed to refund half the fare-about \$61 sech, after 15 min-utes of aroument. utes of argument.

Most of the passengers were British vacationers, and they

told reporters they were sche-duled to fly from Majorca to London on Saturday evening, hut found no plane waiting at Painm Airport, Majorca. Eight and one half hours behind schedule, the airline flew a ThiStar from London to pick up the viranded passen-ers. gers

A relief crew had to be picked up from Paris, because the cabin staff refused to work overtime and insisted the plane land in Paris. The passengers

had to wait hours in a transit

had to wait hours in a transit loung at Charles de Gaulle alrort for the now cabin staff to arrive from London. An airline spokesman said British Airways apologized and confirmed the refunds would be paid. The reasoning for the delays were do, he said to some technical trouble of the facet which resulted in a shortage of planes and the cabin attendants on the flight from Palms were "feeling tired and wanted a rest."

be around during break, consider an exciting, chailenge, and get a head start on making some money for the year. CONTENTS **OPINIONS** 

CO-OP -CLUB NEWS -AIRLINES & AIRLINERS -

6

CLASSIFIEDS- According to Christine Dan-iel of Johesboro, Ga., the Sun Seminar was a well planned mix of hard work and resul-tant satisfaction. "The entire program was impressive. For me, it was a whole new world. I had to study at night to keep up with the day activity. It was worth it, though," said Christine, the daughter of an Eastern Air Lines pilot. Her flight instructor, E-RAU Check Pilot Tom Kirton, echo-ed her sentiments. "Midnight oil all around. All the students and instructors gave it their

simulator time, and 13 nours of flight training. The flight training, as part of the Florida based Universi-ty's Sun Seminar program, para-llelled the lectures, classroom work and other university or work and other university ac-tivity aimed at presenting the participants with a first hand

program. Naturally, with the "World's Most Famous Beach" located only minutes from here, any July activity would make log-ging some sand and surf time

ging some sand and surf time nearly mandatory. For the students, the flight training was one of the high-lights of the Sun Seminar, and it is a big credit to them and their instructors that so much was accomplished in the time alloted

Few of the fieldglings had previous hands-on flight ex-perience when they arrived on campus for the 13 day special



PAGES

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

IN CERT

WEDNESDAY, AUGUST 10, 1977



THE OPINIONS EXPRESSED IN THIS PAPER ARE NOT NECESSARILY THOSE OF THE UNIVERSITY OR ALL MEMBERS OF THE STUDENT BODY. LETTERS APPEARING IN THE AVION DO NOT NECESSARILY REFLECT THE OPINIONS OF THIS NEWSPAPER OR IT'S STAFF. ALL LETTERS SUBMITTED WILL BE PRINTED PROVIDED THEY ARE NOT LEWD, OBSCENE, OR LIBELOUS, AT THE DISCRETION OF THE EDITOR, AND ARE ACCOMPANIED BY THE SIGNATURE OF THE WRITER. NAMES WILL BE WITHHELD FROM PRINT IF REQUESTED.



By Ray D. Katz AVION Editor

END OF SUMMER! IS NEW TRI ANY BETTER?

With the last issue of the Summer I'd like to extend my con-gratulations to those graduating this term. Good Luck out there in the grat wide world. As you star your new carees, consider for a moment the point of it all. Where are you going? What do you hope to accomplish? What do you really want out of like? it seems to me that a little reflection now, could save years of effort and anguish, to achieve a goal that you really care for. I'd like to extend 'these same sentiments and questions to those of you returning in the Fall. For a more specific application consister the S.G.A. as organized under the new S.G.A. constitu-tion. The question has been asked, what do we need or want a stu-dent governing organization for? It's the same as asking, where are we going, or what do we really hope to accomplish. Twe heard everal different ansvers, such as: it's the organiza-tion that represents the students' interests to the Administration, or it controls how the \$11 S.G.A. fee is spent, or runs the Student Court, but Tim curious to know what your opinions are on the sub-With the last issue of the Summer I'd like to extend my con-

or it controls how the \$11 S.G.A. tee is spent, or runs the Student Court; but I'm curious to know what your opinions are on the sub-ject, I'd like to have as much response on the subject as I can get, so that I can do an indepth report of student opinion. If you want your letter printed in "Letters to the Editor", let me know and I will print it so that everyone can read it. I'll print all letters unless specifically requested not to.



Dear Editor, It's rarely that I take offense

to what is written in the AVION but the article "WERU Saved by Security" went one step too for. I believe the stustep too lat. I beneve the stu-dent body will agree with me; that being labeled "stupid" is nothing to rejoice about. The passage I'm referring to goes as follows, "I haven't received a traffic citation since I started obaving the camput computions. obeying the campus regulations. If you have, then you're If you have, then you're stupid." End of quote. The article implies that the author deliberately disobeyed

author deuperately disobeyed campus regulations and as result received traffic citations. If that's not "stupid" then I don't know what is. I never knew, until now, a person who soli-cited traffic citations. I feel it's unfortunate for

WERU that its spokesman is so outspoken. It's hardly what a radio station in need of stu-dent support needs to bolster its popularity.

Sincerely Edward H. Coler

Dear Editor, In response to your editor-ial, S.G.A. Senate meetings are normally held on the first and third Tuesday of each month, the time being decided by the President to allow maxim attendance. However, for the sake of convenience during the summer, meetings have generally been convened on Satur days or. an as-needed basis. Times and dates of Senate meetings could easily be found by a quick glance at the S.G.A. bulletin Board

As provided in our constitution, senate meetings are open to attendance by any interested student. And judging by the nature of your recent editorial YOU would do well to attend a few, since it would surely result in more accuracy in the AVION.

James A. Smith



ALL A

# SPACEPORT RESHAPED FOR SHUTTLE

Kay A

KENNEDY SPACE CEN-TER, Fla. - It will soon be two years since the Kennedy Space Center's Launch Complex 39 last reverberated with the sound and fury of a rocket catapult ing men into space. And it will be nearly two

And it will be nearly two years more before the Space Shuttle claws its way into the sky on its first orbital flight. But many of its sprawling and massive facilities - built for Apollo journeys to the Moon - have already been re-shaped for their new roles in the Space Shuttle era. KSC was selected as the pri-mary launch and landing site

mary launch and landing site for the Space Shuttle in 1972 and construction has be een aim ed at preparing to receive the first shuttle flight hardware in 1978 and to support the first manned orbits! flight in 1979.

Among the factors which led to KSC's designation as the prime shuttle site was the exist-ence of Complex 39, with struc-tures readily adaptable to shuttle launch and servicing requize-ments. To keep costs down, planners were directed to take advantage of existing buildings that could be modified, with new facilities to be built only when a unique requireme exister

The Space Shuttle is a new breed of space machine which is launched like a rocket, maneuvers like a spacecraft and lands like an airplane. But KSC's existing physical

nt was so adaptable that plant was so adaptable that only two major new facilities were required. These were: -The Orbiter Landing Facility on which the Shuttle Orbiter will land on its return to Earth is one of the largest runways in the world. the world.

This concrete runway is lo-cated to the northwest of the Vehicle Assembly Building and is roughly twice as long and twice as wide as the average commercial landing strip. It is 4.5 kilometers long, 91 meters wide and has a 300-meter safety overrun at each end.\*

Its equipment includes a Mi-crowave Scanning Beam Land-ing System which will guide the

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(Right next to the E-RAU Administration Bldg.)

Orbiter to an automatic landing on its return from a mission in space

space. The obtier Processing Facil-ity is located in the heart of Complex 36 and conected with the landing facility by a 3.2 kil-ometer towway.\*\* The OPF is essentially an aircraft "hang-at" with two high bays in which Orbiters will undergo rafing and servicing immediately after landing. It is here, in a "clean room"

Inding. It is here, in a "clean room" environment, that ordnance and residual fuels will be rendered safe, flight and landing systems refurbished and payloads re-moved and installed. A technological "face-lift"

A technological "face-lift" has been undertaken to prepare existing facilities for new roles, The Vehicle Assemby for the Sa-turn V/IB rockets used in the Apollo, Skylab and Apollo/ Soyus programs, is being mod-lifted for the assembly of the Space Shuttle in two fits four high bays. The remaining two high bays will be used for pro-cessing and staging the Shuttle's cessing and staging the Shuttle's Solid Rocket Boosters and Ex-

Solid Recket Boosters and Ex-ternal Tonk. The Launch Control Center, "brain" of the complex, is be-ing fitted out with the highly automated Launch Processing System (LPS) developed for Shuttle checkout and launch, Two of the LCC's four Firing Rooms are being equipmed with Rooms are being equipped with LPS consoles and associated equipment.

So sophisticated is the new stem that only about one-onth of the manpower requir-

ed for Apollo will be needed in the Firing Room to checkout ed for Apollo will be needed in the Firing Room to checkout and launch the Space Shuttle-45 as compared to 450. And the final countdown for

And the inal countdown for the Space Shuttle is expected to take only two and one-half hours as compared to the 28 hours needed for the final countdown for an Apollo/Saturn V.

Launch Pads 39 A and B are undergoing major changes. With the exception of the six fixed pedestals which support the Mobile Launcher Platform all of the structures on the sur-faces of these twin pads origi-nally built for Saturn launches will be removed or relocated.

The upper portions of the umbilical towers from the Mobile Launcher Platforms are be ing removed and installed at each pad to serve as fixed Shuttle Service and Access Towers. With the exception of Spacelab - a large space labora-tory being built by the Euro-pean Space Agency - many pay-loads may be loaded into the Shuttle Orbiter at the launch

Shuttle Orbiter at the launch pad from the Payload Change-out Room. The Payload Changeout Room (PCR) is a "white room" structure mounted on a semi-circular track extending from the Shuttle Service and Access Toware. The PCP is entential Tower. The PCR is retracted along its track to its park site prior to launch. The Saturn Mohile Launch-

ers are undergoing major chang-es to adapt them for the Space Shuttle. The most striking visu-al changes involve removal of



KENNEDY SPACE CENTER' Fla. - The Orbiter Processing Facili the interval of Article Carlier Processing Facili-ty nears completion as ISCS Launch Complex 39 undergoes modi-fications preparing it for Space Shuttle missions. It is in the Orbiter Processing Facility that the Orbiter will be safed and serviced after landing at Orbiter Landing Facility to the northwest of the Vehicle Assembly Building. (Photo Credit - NASA)

the launch towers and their cranes from the platform. The need for these have been elim-inated on the Mobile Launcher Platforms by installation of the permanent launch towers on the pads.

The single opening in the centur of the Mobile Launcher Tatform is being replaced by three openings to permit ex-haust gases from the Orbiter's main engines and two solid rocket boosters to escape during liftoff.

The ponderous transpo the ponderous transporters bearing massive loads on a back the size of a baseball diamond will be used to move Mobile Launcher Platforms with the assembled Space Shuttle be-tween the VAB and Complex 20th true hunch pade

39's two launch pads. These twin giants were originally adapted from strip min-ing machinery to carry Saturn V/Apollo flight hardware around Complex 39 and both have amassed odometer read-ings in excess of 800 kilomet-ers.\*\*\*

The transporters are performing their load-carrying chores through the life of the

chores through the life of the Space Shuttle program. Much of the construction and modification work has al-ready been completed and the eventual cost of the endire pro-ject will approximate \$240 million, less than one fourth of the cost of building the Space-port for Project Apollo in the 1960s.

In English measurem In English measurements, the landing facility is 15,000 feet long, 300 feet wide and each overrun is 1,000 feet

\* The towway is 2 miles long. \* Odometer readings for both crawlers exceed 500 \*\*\*

WEDN SDAY, AUGUST 10, 1977

Resident Advisor Training

Last weekend seven continu-ing and 11 new Resident Ad-visors, Mrs. Ruth Wood, Desk clerk supervisor, and members of the Student Affairs division participated in a three day training seminar at the Univer-sity Inn, in Deland. The seminar was sponsored by the Housing Department. Special thanks Department. Special thanks goes to Dr. Jeffrey Ledewitz, Vice President of Student Af-fairs; Dean Bob Rockett, Dean of Students; George Smith, Director of Housing; Nena Frost, Director of Student Ac-Frost, Director of Student Ac-tivities; Marty Keller and Debi Sugarman-Counseling Center; and Coach Wurzback, Athletic director, for their time and effort in planning and conductougarma, and Coa-dire ing the Seminar

ual-May, '77.)

cure a

Soire a "Rob,

give up

Florida

for the

Arriving at your destination safely is no accident, therefore, it was a safe flight. Wrong! Suc-

it was a safe flight. Wrong! Suc-cessful completion of a flight does not make it safe

After a particularly bad

month of accidents in Florida, mostly with pilots listed as the primary causal factor, I asked an aviator friend, Dick Show of Quincy, Florida, "How do you

give up trying occurse occurse occurse occurse occursionally you can relieve the symptoms". Dick went on to relate one of his experiences when he agreed to help a friend fly an airplane from New York

They had waited two days

the weather to improve and s still very hazy with visi-less than a mile but there no thurderstorms. Dick

asked his friend if the Bona

asked his friend if the Bonanza was instrument equipped. His friend replied that it was. There were two radios, two VOR's, ADF, auto pilot, "all of the lat-est equipment". Dick looked at the panel and was satisfied,

at the panel and was satisfied, so ihey filed IFR. Taxiing out, they requested their IFR clearance and re-ceived instructions to squawk,

a four-digit code on the trans-ponder. Discovery (1), no trans-ponder. They got clearance to take off and departed without incident. Climbing through 700

feet on radar vectors and in the clouds, Discovery (2), the directional gyro tumbled; it was spinning like a top. No sweat, Dick went up to the wet com-

Dick went up to the wet com-pass, Discovery (3), but it was listing port and appeared froz-en. The aircraft owner advised Dick that if you hold it and pull down on it will indicate proper-ly. Dick immediately told him to sull down on it will solve a solve the sull down on it will be added to be added t

On departure, they were told to go 'irect to a VOR which Dick had pretuned, Dis-covery (4), no indication. The owner said that the off flag

COLLEGE CATALOGS!!!

The Media Center has just received the National Micro-film Library College Catalog Collection. This collection which is on microfiche is in-dexed by state and name of the

college or university. Besides in-dexing the United States, it also has a section for foreign achools as well as special schools. It will be available for your use

in the periodical room next to

THE WORLD ENCYCLOP-

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did not work but the us did. Then Dick proceeded to tune in the other VOR and the aircraft owner interrupted to

to pull down on it.

trane

MEDIA CENTER

a four-digit code on the

(DS)". Dick's reply, you can't, but don't p trying because occa-

The training topics dealt th activities, duties and res-nsibilities of the R.A.'s and mith ponsibilities of the R.A.'s and goals to be accomplished this fall. The R.A.'s got to know each other and the Student Affairs staff whom they will be working with in the Fall. This is the beginning of a con-tinuing Resident Advisor training program which should en e Dormitory life in the future

#### NEW R.A.'s SELECTED By Ken Keene and

and Steve Page Recently be housing office in conjunction with the present Dormitory advisors and the staff of the Counseling Center selected eleven new Resident Advisors to fill vacancies that will be arrested in the Sel tri will be created in the Fall tri-mester. We would like to congratulate the following stu dents:

dents: Jerome Diehl Timothy Duffy Bazile Norris

Albert Wilcosky Barry Sheldon Jeff Stephens Paul Strevy Hakon Weise Raymond Wolowicz David Scott

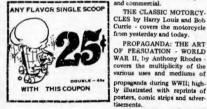
Steven Rice

We would also like to an-nouce the hiring of Mike Gear-ing as Resident Director. Mike ha served for the past year and a half as resident advisor as well as Senator in the S.G.A. and as President of the Riddle Packers, and Representative on the Pool Committee. Much ap-preciation to Mark Sternat who has served the student. has served the students and staff in the position of Resi-dent Director for the past year. Mike and the dormitory staff should prove to be an asset to the dorm residents a trative staff

GRADUETTION







THE GREAT AMERICAN

(The following Safe Flight ar-ticle was taken from the Florida Department of Transportationadvise Dick, Discovery (5), that the off flag worked but the needles didn't on the No. 2 VOR Aviation Information Man

Was It Really A Safe Flight?

had

Dick managed to fly the achine out of the New York machine out of the New York complex to where the weather was VFR about 30 miles south then cancelled their instrument was VFR about 30 miles south then cancelled their instrument flight plan. They had a 3,500 foot ceiling with occasional breaks in the overcast. After 15 minutes of flight, the owner asked to fly the airplane, so Dick lei, him. AuotLar five min-utes had lapsed and Dick ob-served the power being added and a climb commenced. Dick asked the owner what he was doing and he replied that he was going up tirough that hole to get "on top". Dick advised him that that was not the only hole and that dark area was a him that that was not the only hole and that dark area was a cloud. The owner persisted, and ended up in the soup again. When he found he couldn't handle it, he asked Dick to take dle it, he asked Dick to take control. Dick declined. After 30 seconds of milling around, Dick told him to slow the air-craft down, lower the landing gear, get to maneuvering speed and start a steady rate of descent to get back down where it was VFR. Two or three more anxious minutes passed and they finally broke out. The rest of the flight was unevent-

Dick went further to explain that the man still owns the Bo-nanza, all the instruments and radios have been reworked and he is now strictly a "VFR" nilot

The above incident terminet. ed safely but it was by no means a safe flight. A severe case of "DElta Seirra" was treated and the unsafe flight was never recorded as an a was never recorded as an ac-cident statistic. Only five per-cent of the unsafe flights are ever documented; unfortunately, they they are documented by

We must constantly educate ourselves to recognize when a Dight is entering the unsafe regime, then take positive ac-tion to put all factors of flight in our face. ur favor.

Projecting probable conse-quences of action based on the quences of action based on the best information available is the beginning of safe flight. It is decision making based on judgement. It's taking charge and being "Pilot in Command".

BLOW-UP: PUFFERY IN ADVERTISING and Selling by Ivan L. Preston, deals with the advertising world presented to the consumers.

HANG GLIDING: RAP-TURE OF THE HEIGHTS, is

a look at the beginning of man-ned flight and the return to today's most enchanting new sport. Superb photography.

by Lt. Col. Nick P. Apple, is a pictorial tribute to the ingen-uity, technology and courage that Hfted man to the skies and

FOR YOUR INFORMA-

FOR YOUR INFORMA-TION: A suggestion box has been placed inside the glass doors to the main room of the Media Center. We appreciate and value your comments and hope to be able to accommo-date as mery as possible

Among the suggestions made for our Media Center were the addition of individual STUDY CARRELS. Although we are very interested in this type of

sesting, it requires more space

Plans for a new facility wili include study carrels, lounge seating, study tables as well as small, sound-proof conference

LATER HOURS will be sidered this fall if increased use of the Media Center warrants

keeping it open until 11 p.m.

tion

space

date as many as possible.

then on to space.

THE AIR FORCE MUSEUM

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

### EXPERIENCE

Steven was employed by Baltimore Airways, altimore, Md. in the Position of Line Pilot)

When starting my second Co-op term in Sep-tember 1976 I looked back at the previous sum-mers experiences. I knew my job wasn't going to be the same, although the objective was the same. I had to obtain this objective in a different manner. Ahead of me was flying through the winter that was forecast to be one of the worst i, man

ner. Ahead of me was flying through the winter that was forceast to be one of the worst'; many years. It wasn't going to be easy to maintain a schedule with everything going against me. During the first half of September I was still assigned to flying Senator John Heinz of Pennsyl-vania, we would be gone from two hours to two weeks, nobody every knew urtil it happened. Looking back hitn my management classes I couldn't see how a politician could be so irratic with plans, and so indecisive about the next event. Everyday I would check back with the main office in Baltimore to keep them up to date on where we were at the time and what the plans were for the next couple of hours. My co-ploid was also a traveling accountant keeping track of all expenses so the customer could be charged accordingly. On weekends I would sit down and verify the expenses with him and then forward them to the office in Baltimore. Although we didn't have any problems with winter weather at this time, the tell-tale signs were everywhere. Upper air winds were increasing with events.

were everywhere. Upper air winds were increasing with velocity, thunderstorms were becoming le with velocity, thunderstorms were becoming less frequent as the air temperature gradually decreas-ed. We also developed a slight problem due to un-expected weather. Senator Heinz lived near a small airoraft use barely capable of handling the aircraft we were using at the time. Over the sum-mer months surface winds weren't a factor being on the average 15-20 MPH maximum continuous. As winter amorached these winds were increase e averwinter approached these winds were increasing m an average 20 MPH up to 50 MPH. Due to the limited run limited runway length many times were e to land and hed to divert to a bigger airr If I had been more observant of future conditions we would have been able to notify the Senator

we would have been able to notify the Senator ahead of time so as not to inconvenience him. This is where better planning would have helped. Of course after the elections we lost the con-tract and I was assigned to yet a different type of flying. October 18, 1976 I was moved to Boston, Massachusetts. I was to be based at Logan International as a field office representative for Baltimore Airways. My main puppose was to fly Baltimore Airways. My main puppose was to fly a contract freight run for Purolator Courier Cor-portion from Boston-Pittsburgh-Columbus, Ohio New York-Hartford, Conn. - Boston five nights a week. I was left in charge of having the meintaa week. I was lett in charge of naving the minute-nance performed on the aircraft so that it would be available every night. There were quite a few management related decisions to be made. Being very costly you didn't want to do it unless nec-essary. On the other hand if the airplane wes grou grounded at some time during the night you would lose \$1,500.00 plus the added cost of would note sigoroup the andea cost of maintenance away from home. There were many nights that an item would break on the first leg of the flight and a decision had to be made whether to continue or stop, with safety of the flight being of the utmost importance. Although sometimes necessary we weren't allowed to for-get that the company had to soak up to \$600.00 if it were necessary for a standby aircraft to be

2% FARE

### INCREASE

WASHINGTON, D.C. (Aug-ust 3) - The Civil Aeronautics Board today allowed U.S. air-lines to raise all domestic air fares 1.5 to two percent above the level of fares in effect in mid-July, effective on various dates between August 7-22.

dates between Augnst 7-22. The Board acted by dismiss-ing a compaint filed by the Na-tional Passenger Traffic Associ-ation (NPTA), which claimed that the mid-July 0.7 percent increase precluded any basis for another increase volid

The Board said that the NPTA had failed to set forth sufficient facts to support its

The Board found that under current fares the industry's rate current fares the industry rate of return on investment (ROI) would be 10.2 percent, well, helow the 12 percent stan and. The 1.5 percent increase would raise the ROI to 11.6 percent, 100 million the 10 percent. raise the ROI to 11.6 percent, still within the 12 percent benchmark. The Board noted benchmerk. The Board noted that a two percent increase would raise ROI to 12.07 percent, but since some major competing airlines have not filed to match the full two perto the indicate the function of the second not be implemented before Sep-tember, by which time the RO! would fall below 12 percent.

Ev Steven A. Clough sent up from Baltimore. It took a minimum of three hours advanced notice to get an incinum of to Boston. This price did not reflect the price for the pilot and the fact that it ties up a revenue

the pilot and the fact that it ties up a revenue developing machine. These were just a few of the management related decisions I was required to management related decisions I was required to make as a pilot. Fortunately my aircraft seemed to be restrie-ly maintenance free. I was able to focus my atec-tion on getting the freight delivered on time A casy as it may sound take my word, "it wasm". With winter well on its way schedules been every difficult to maintain. With a scheduled parture of 9 P.M. at Boston I had two hours, a minutes to get the freight to Pittsburgh. It didm natter if I had 100 KT headwinds or 100 KT tailwinds I still had to have the freight there by 11:45 P.M. Being more rule than exception 1 tailwinds I still had to have the freight there by 11:45 P.M. Being more rule than exception I had a minimum of 30 KT direct headwind every night. The ever decreasing groundspeed coupled with the ever increasing departure delays made life difficult. As you can well see I was late every night, the only thing that saved me was that the time frame at Pittsburgh was not critical. My next stop, Columbus, Ohio was the critical stop. This is where I met sixteen other aircraft coming in from all over the east and midwest to exchange freight I have time have to be metded us and in from all over the east and midwest to exchange freight. I knew time had to be made up and quick. A combination of extremely quick turna-rounds and ground hugging legs to stay out of the upper winds was just the combination. I was able to average a 92% on time completion rate into Columbus. Due to the PIT-ChiII leg being flat terrain was the reason for making up the time. Boston-Pittsburgh was across a mountain range with 6,000' - 8,000' altitude restrictions; right up in the strong upper air winds.

The return legs were a gives way, now heading with the wind I would climb out of Columbius on course to New York. Many a night 18,000°-20,000° was an ideal altitude, although uncom-fortable due to an oxygen mask, it was well worth it to experience 70-100 KT talwinds arriving in New York ahead of schedule. This proved to be very important because the next stop wasn

After landing at Teterboro Airport (serving After landing at Teterboro Airport (serving New York) I would have plenty of time to check to n Hartford, Conn... Being a snall airport without facilities I had to be sure everything was just right. Many a night I was faced with landing a grossed out airplane on a marginal runway with six inches of fresh snow on top of solid ice. Although we were able to operate out of Hartford

though we were able to perate out of flastford all winter it was only attributable to extensive planning, always leaving a way out. Trom Hartford to Boston was one half hour and no consistent problems were encountered. I flew this freight contract up until January 1977 completing the seco 4 term. Although I was not continuing in the Co-op program I remained with the company until Jane 1977. Throughout this year of work, I was better able to see and under-stand the industry I wanted to develop a career in. I gained first rate experience while learning the ins and outs of flying. I wouldn't trade this last year for anything. It has not only been a year of learning but it has enabled me to become experienced so that I have no worries about get-ing a job upon graduation from school. I give ing a job upon graduation from school I give my full support to the program and hope that other people are able to use it to such an advan-tage as I was.



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#### PAGE

EMBRY-RIDDLE AERONAUT!CAL UNIVERSITY

HEAL

WEDNESDAY, AUGUST 10, 1977



Books will be purchased at 50% of their current list price.

Only books in good condition will be purchased. We cannot accept books if problems have been

#### BOOKS BOUGHT BACK

McConn. Fitz. Dagher Sherman Keedy Wash Freund Barnett Heinemen Naiman Leithold Speigel Sokolin lohnson Hodgetts McCarthy Beach O'Brien Lusk Summer Bourne Smith lein Beiser Masterson Halliday Houghton Perry Pope Rivello Leavell Ferrera Marateck Cooper Khailany Bright. Zbar Zbar Shames Baker Sametson Sametsor Perrine Scott Monroe Smith hewA

Economics Text Basic Electrical Engineering Writing: A Practical Guide Modern Tech. Writing Intro. Algebra Basic Tech. Math w/Cal. College Math w/Bus. Apps. College Algebra w/Trig. Plane Trig. w/Trig. Understanding Statistics Calculus w/Analytical Geometry Applied Differential Equations Math of Physics and Mod. Eng. Principles of Accounting Mgmt. Theory Proc. & Prac. Basic Marketing Personnel: Mgmt. of People Computers in Bus. Mgmt. Business Law Managerial MInd Psychology Personality Development Foundations of College Chem. Modern Technical Physics Chemical Principles Text -Fundamentals of Physics Aero, for Eng. Stud. Aircraft Structures Low Speed Wind Tunnel Testing Theory and Analy. of Fit. Strut. Stand. Aircraft Handbook Aviation Electronics Basic Standard Fortran Cobol for Small and Med. Comp. RPG Land RPG II Basic Electronics **Basic Electricity** Eg. Mech. Vol I Stat. ntro. to Solid Mechanics Phase One: Let's Converse Phase Two: Let's Read Story and Structure Studies in the Short Story Principles of Speech Comm. The Religions of Man Issues in Bus Data Proc

80

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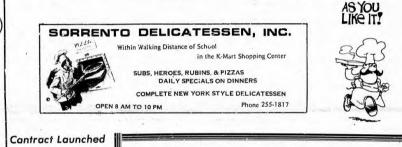
Kudos are in order for our championship softball team as once again the Big Blue mowed its way to number one in intermu-al play. Doug Baldauf, our player-coach, armed with the talents of Mark Hansen, Wally Shumate, Jim Borden, Bob Allen, Steve Cur-tain, Mike Drake, Kenny Houser, Kenny Holgard, Carl Duncan, John Richards, Mel Wynn, and Tim Philips overwhelmed the com-petition not only in eur own leque but moved off campus to take on new victims for the team. Joe Golinski traded in his unpire's whisk broom for a first basenan's mit to also join the team in meeting a challenge from the Buena Vista Apartments Softball team. The game played last Friday gave our team an opportunity to demonstrate its prowess against some new and stiffer compe-tition as the Vets came through with a 7 to 4 victory. Another Challenge has been offered by Hawaiian Tropic's Team for a contest to be heid soon.

to be held soon. The Club has also submitted two teams for the volleyball season which began lasi. Monday. The Vets faced the Black Sheep Teams in the opening contests. Games will be held each Monday for the remainder of the term on the tennis courts behind the Used Book-

remainder of the term on the tennis courts behind the Used Boox-store. The final business meeting for the term was held Wednesday, August 3, but due to some ambiguity in the Fyer, the Attendance was very light. The meeting was held not only to discuss the Italian Dinner but also to discuss some new business. Most noteworthy was the installation of Mike Drake as the newly appointed Vice President of the club. Also of interest was the adoption of a club banner with a design very similar to the club emblem but incor-porating a motto across the bottom, I believe suggestions for a suitable motto are still being sought by the board. Also being sought are volunteers to man the registration line for the Fall Trimester, volunteers will be granted the opportunity to register early. It has also been requested that the metabership pass the word about the Used Bootstors's new inventory of pilot supplies, word of mouth seems to be the best source of advertisement open to us threasen the lowest price on the sumport, and is offering the students a choice in not only price bus in manufacturers as well. Also dis-cussed was the possibility of opening up some of our events such as

the road rallies to challenge other campus organizations. The poor turnouts at the last few events by the membership has been costing the club a disproportionate amount of noney and possibly the spirit of competition may bring about a better attendance. It has also been noted that there may have been too many events for the already hectic summer trimester with four events each term, and suggested that there be only two events planned per term. Some further input from the membership may be helpful to the executive board for making recommendations to future office holders. Deen Agett has presented the club with a letter of commendation for its services in making the Pit Throw a reasonable success, hopefully services in making the Pie Throw a reasonable success, hopefully we may look forward to another such event in the Fall with greater

we may look forward to another such event in the Fall with greater university participation. we may look forward to another such event in the Fall with greater university participation. If you did not attend the Italian Dinner lest Saturday night, not only did you deprive those in attendance of your valued company, only did you deprive those in attendance of your valued company, but you also deprived yoursell of a really fine meal and a very plea-sant club gathering. The assortment of food was as diverse as it was delicious, representing a wide range of Italian cuisine. The evening also offered an opportunity for relaxed conversation zeldom attain-sble at our hyperactive outdoor social events. The Icheuknes Springs trip has been postponed in favor of the dinner, undoubtedly to the delight of everyone who was able to stuff themselves with such fabulous food. Judging from the amount of time left in the term this may have been the last social event, possibly one of the best in the end.



The Bee Dec Jive

for 2nd

Launch Platform KENNEDY SPACE CEN-TER, Fia. - NA5A's John F. Kennedy Space Center has a warded a contract for \$7,325,000 to Algemon Blair Industrial Contractors Inc., Norcross, Georgia. The fixed price contract is a for the conversion of a sa

for the conversion of a Sa-turn/Apollo mobile launcher to a mobile launcher platform for operational use in the Space

for operational use in the Space Shuttle program. The conversion work in-volves removed of the launcher's 400-foot tall umbilical tower and jib crane. A permanent launch tower is being installed at each of KSC's two shuttle pads at Complex 39, eilminat-ing the need for towers on the mobile launcher platforms. Also entailed in the conver-sion is replacement of the single exchaust opening in the plat-

sion is replacement of the single-exhaust opening in the plat-form with the three required by the Space Shuttle's main engines and twin solid boosters. The conversion of one of KSC's three mobile launchers to a mobile launcher platform is nearing completion and the new contract marks the begin-ning of modification work on the second.

Completion of the conver-sion process on the second mo-bile launcher is scheduled in

KSC has been designated the ime launch and recovery site for the reusable Space Shuttle, scheduled for launch on its first manned orbital mission in he spring of 1979.

## **IT'S YOUR YEARBOOK** HELP MAKE IT A **GOOD ONE!**

The PHOENIX staff is presently looking for dependable people who are willing to give some of their spare time to help put together a good yearbook for this coming year.

If you have had any previous experience with layout, ad sales, business managing, photography, etc., we need your help!! If interested, or in need of more information, Please Contact:

Linda Tanner E.R.A.U. Box 5102

Cathey Wilkins E.R.A.U. Box 2566

### WE NEED YOUR IDEAS!

10

lst ILS Unit

#### Delivered

LOS ANGELES - July 25 --Northrop Corporation's Wilcox Electric, Inc., subsidiary has de-livered to the U.S. Air Force --livered of schedule and within ad of schedule and within cost and performance - the first new AN(SRN-29 Category II ),strument Landing System (ILS) in a contract to improve reliability and reduce operating costs at USAF bases throughout the world.

The GRN-29 contract is one The GRN-29 contract is one of the largest ever awarded for ILS equipment and also in-cludes options for 38 more systems. The Category II units are "second generation" sysare "second generation" sys tems, employing the latest state-of-the-art digital electron ics

In addition to the Air Force contract, work is currently underway on two other major Northrop-Wilcox programs awarded by the U.S. Federal Aviation Administration. One Aviation Administration. One is the first production con-tract in the U.S. for Category III ILS systems, the most advanced yet devised which allow for all-weather operations at major airports.

at major airports. These systems initially will be installed at eight airports in the U.S. - Los Angeles, New York-Kennedy, Chicago-O'Hare, Houston, Detroit-Me-tropoliten, Seattle-Tacoma, Pathematical Statematical Sta he tropoliten, Seattle-Tacoma, Portland and Kansas City, with the first system scheduled for installation at Kansas City sometime next year. Another system will be installed at the FAA's academy in Oklahoma

City for training purposes. Under another contract, Northrop-Wilcox will be supply-ing the FAA with 57 complete and 65 partial systems for smaller airports. The company just completed installation of advanced ILS systems improvacvanced LD systems improv-ing flight safety and reliability at 56 airports in 27 states from the Arctic Circle to the Virgin Islands, under the largest con-tract ever awarded by the FAA up to that point. Northron-Wilcor is a world

Northrop-Wilcox is a world leader in development, produc-tion and installation of ILS systems, and also produces ground-based airport and air-ways navigation equipment, in-cluding very high frequency omnirange (VOR) ground stations, dist tions, distance measuring equip-ment (DME), and air-to-ground

communications equipment. The company's systems are currently operating throughout the U.S. and the U.S. and in more than 100 foreign countries.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## CT7 ENGINE CERTIFIED

LYNN, Mass. - The Federal Aviation Administration has awarded a Type Certificate for General Electric's new CT7 General Electric's new CT7 turboshaft engine. This new engine is a commercial version of the military T700 and will benefit from the experience gained from GE's other highly successful T58, CT58, and T64

successful Tob, Clob, and Tob, turboshaft engines. In making the announce-ment, P.A. Adinolfi, General Manager of GE's General Avi-ation Engine Department stat-ed, "We believe that the CT7 is the most advanced commer-ciel believerter powerplant availis the most advanced commer-cial helicopter powerplant avail-able in the world today; it offers outstanding performance, new levels of reliability, and low cost of ownership." He noted that CT7 performance and operational data have been furnished to domestic and overished to domestic and over s helicopter manufacturers.

Program management, devel-opment, marketing, production opment, marketing, production and product support of the DT7 is the responsibility of GE's General Aviation Engine Department headquartered in Lynn, Massachusetts.



I can assume that most of that are interested and in-ved in aviation also have a idency to like travel. Specifically, most of us probably like to travel by air, and when we don't fly ourselves we are con-tent to ride as passengers in today's safe, fast and reliable airliners. I always like to look formand to an airline trin as forward to an airline trip as some kind of an adventure, especially on new routes and on new airlines and different air-craft. I prefer flights with a maximum number of stops (unless I have to get somewhere fast) since the most interestfast) since the most interest-ing and exciting portions of a flight are the takeoffs and land-look, study the stews or go to sleep. Those of us who have frequently traveled as passen-gers have by now probably picked our "favorite" airliners to ride in. Some prefer the good old "narrow-bodies" (the Boeold "narrow-bodies" (the Boe-ing 707,727,737 and Douglas ing 707,727,737 and Douglas DC-8 and DC-9). Others find it more pleasurable to ride in the newer "wide-bodies" (Douglas DC-10, Lockheed L-1011 and the big Boeing 747). We may have more trust in the smaller, more solid seeming narrow-bodies, or we may like the sheer size and majesty of the big widebodies. A trio on an airliner is only

big widebodies. A trip on an airliner is only as fun and interesting as you make it. For us pitots, we can just imagine - sometimes more accurately than you would think - what goes on up front in the cockpit; once the air-

in the cockpit; once the air-craft starts we can play "se-cond-guess the captain." I do! Here we are: aboard a load-ed-othe gills DC-9 (tch,tch, there I go on my 'Douglas kick' again) belonging to one of the 'hop-scotch' regional carriers. We're backtracking down to the heerinning of the carriers. We're backtracking down to the beginning of the

5,000 ft. runway (no parallel taxiway) and in your mind's eye you see the crew checking off the last pre-take off items on the list and calling for go-clearance. We sway gingerly as on the list and calling lor go-clearance. We sway gingerly as the captain veers off the center-line, heading for the edge of the runway and then sharply cuts into a turn to align the sizek craft for takcoff; the seems to be moving di-sideways as the fragile cabin rectly heels are sharply defle nosev ed. Halfway through the term the captain is already advanced. Halfway through the tran-the captain is already advanc-ing the thrust-levers controlling that sunjeut's powerful autho-fans and you hear them slowly spool up to a mounting whine/ buss. Your seat insistently presses solidly against your back as the jet accelerates smothly down the runway, bouncing and bobbing over in-resultantics . the excitement ularities - the excitement ounts. You look out at the regularities wing as it gently flaps and flex-es, noticing an increasing up-ward deflection as the rumble from the front gear stops and the nose pitches positively up you're really moving, now! We continue rolling along on the mains and then - "Thump-thump' as the tires leave the ground and the shock-struts extend fully; we're off! The si-lence of jet flight engulfs you. Below, you feel and hear the ar doors open with a main ge main gear doors open what a rush, followed by bumping sounds - 'well, the gear's up,' you think to yourself. You look out just in time to catch the leading edge slats retract-ing, finishing off with their 'readitional mournful groan traditional mournful groan -startling some of your fellow

ssengers. I've been on a few flights which the captain likes to on wh leave the cockpit door open from the time the aircraft starts to move until during the climbout. I think this is pretty neat since it affords the assenneat, since it affords the p gers - those with enough gump tion to look - with a splendid view of what is going on. In this case, it's nice to have an this case, it's nice to h aisle seat. On these

It makes it more interesting for the passengers - a good di-version and confidence builder. When it comes to an ap-proach and landing, I find it most interesting to watch a Boeing wing make a spectacle of itself by coming as close as possible to falling apart witb-out actually doing so. On a short flight aboard a B-727-200 with the 'manin-the-sure. airand their aboard a B-121-200 with the 'man-in-the-sum. air-line, (fly them anytime for a thrill), we were making an a peproach into TPA. Either as a result of late clearance or the ol' keep-tra-m-high policy, we were a bit high and close. The purpose a nit high and close. The engines spooled down to flight-idle followed shortly by full extension of the spoilers. Needless to say, we began sinking like a lead-coated brick, watching the clouds pass by in an alarmingly upward direction. I must alarmingly upward direction sust compliment the engineer his pressurization manage for his pressurization manage-ment, since no undue earpop-ping occurred. This continued all the way down. to around 1,500 feet while the crew turn-ed and banked the jet to align with the runway, heading north with the runway, heading north now. We must still have been incomfortably high-and-close for the captain's taste, for with-out further ado the spoilers retracted, followed immediately by the extension of the 727' by the extension of the later absolutely may velous array of drag (and, thank goodness, lift) producing items. The big multi-ple-slotted flaps began their journey aft, riding their screwjourney aft, riding their screw-jack actuators and then pro-gressively down to about half-flaps; the outboard slats and in-board Kruger flaps on the lead-ing edge of the wing also began extending with a roar of pro-testing air. An additional rush of air started under the cabin foldor as the main gear doors folded out of the way of the big twin-wheel bogies dropping into the airstream - 'thump-thump', goes the gear: down thump', goes the gear: down and locked. The overall decel-leration is quite noticeable, Hy-draulic motors whine and

flights, the door was also open for the approach and landing. It makes it more interesting

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

good

squeal as the flaps go down the rest of the way. The nose is really down now - then the en-gines urgently spool up to s urgently spool up to roach power, effectively rooming the tremendous in approach crease in drag as the noise passes back up through the horizontal and settles in a slight nose-high attitude. Tampa Bay rushes alowly up to meet us as the big jet literally rams is way through the size angines work. oug jet literally rans l'a way through the air, engines work-ing hard. Flash! The threshold alps under us - still high; rate of descent suddenly increases and is stopped in the last remaining feet by a burst of power -engueth to the start start of the start of the start of the start start of the start start of the feet by a burst of power -enough to make the turbofans start to buzz. Whoooomp. . start to buzz. Whoocomp. . . skp. . .runble - we're down. Spollers come up as the en-gines spool down; the reverser clamshel's slam shut and the engines are spooled up again. Bump! There's the nosegear; Bump! There's the nosegear; the engines are howing and we're hanging on by our seat-belts as the plane shakes and bobs - what's the rush? Did we have to leave the restful quiet of flight so soon? We have to have the restant quiet of flight so soon? We slow to a crawl and turn off the runway; spoilers plop down and flaps and slats slide nearly back into place. That was fun - let's do it again!

When riding on the widebodies it is especially interesting to observe and experience the ridiculousiy steep deck-angles during climbout, which seem a 20-30 degrees nose up! Also, sitting in the very back of some jetliners, particularly 747's and DC-8-63's, you will actually go down a nur er of feet before going up! It's an eerie feeling as you see the ground rush up during rotation, and no doubt you'd think that contact with terrs firma is rather inevitable. Not ally though ...

Of course, the best place yet to ride in an airliner is the jumpseat in the cockpit.

· Canada ...

ride in the jumpseat provide almost anyone wi unforgetable experie trick is getting into it, the VERY Unless you have a friendly and sympathetic cap-tain, most of our paranoiaridden US carriers won't even let you near the flight deck. are exceptions, I'm There sure, but chances are you may well not even bother, If you want to go through ch annels, though, you may just be able to ride jumpsent. Specifically, the Federal Aviation Regulations state, under Part 121.547, subparegraph (a) (4): "No person may admit any n to the flight deck of pers an aircraft unless the person being admitted is - any person who has the permission of the pilot in command and is speci-fically authorized by the certi-ficale holder (air-carrier) man-agement and by the Administraagement and by the Administra-tor". If I am interpreting this right, that means that if you are right, that means that if you are a pilot certified by the FAA (lithat should take care of the Administrator performing and have permission - preferably in writing - from the management of the airline plus have the OK from the captain - you're all set. I must admit that I've never tried it this way nor do I know of anyone having gone through channels like that. I through channels like that. I have ridden jumpsets many times on foreign airlines on international routes; all you haveto do is ask, and the captain - on the average - is more than happy to have you up front, for part or all of the trip, including takeoff and landing. It is very exciting and internations - and nulls a learninteresting - and quite a learn-ing experience

Flying an aircraft yourself is a most satisfying experience, to be sure; but being a passen-ger can be fun also. Just get yourself into the right frame of mind and... GO!

Riddle Skiers Mtg F/SL - 6 p.m. Lambda Chi M ALAA Meeting Scuha Club Meeting CCO Meeting Sp.m. CPR Alpha Eta Rho Mer CFE-8 p.m. ting at Hallf 10 MASS:10:30 s.m. Protestant Services Scuba Club Meeting CPR-6 p.m. Vet's Chub-Lat Annual Open Invitational-Noon CPR- 6 p.m. Alpha Sta Rho S 8 p.m.-CPS Pick up an AVION Lambda Chi Meeting GRADUATION REQUIREMENTS Riddle Skiers Mig. F/SL- @ p.m. at Halifas Lanes E: 30 p.m. GRADUATION-A.M. 16 Riddle Pack rGi0 MASS: 10:30 s.m. Protestant Services 11:15 s.m.-UC-CPR FINAL EXAMS FINAL EXAMS FINAL GRADUATION Scubs CLob Meeting BCN VOYAGE! LAST DAY CLASSES 0 Book Buy Back CPR-Book Buy Back-CPR 9-11 s.m. 4 Book Buy Back .PH-23 122 ..... 3 SUMMER BREAK MER BREAK dy . 10. 40 A SL 1000 States and 10 GRIENTATION REGISTRATION July 1877 ORIENTATION BEGINS Suptembsi (Sept.2)-Movie: STUDENT ACTIVITIES EXT. 301 SUMMER BREAK the states

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EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

WEDNESDAY, AUGUST 10, 1977



FOR SALE-AUTO

FOR SALE: 1969 VW Bus, mint condi-tion. NEW EVERYTHING. Needs Engine Work. "Hurry" a Deal of a life-time. \$500 Phone 25.9296. Ask for MARSHA.

4

FOR SALE: 1965 Cutlass Convertible. Collector's Item. \$250. 1976 Yamaha RD - 400. Lightly tricked. \$900. Solid oak dizese: \$45. Call 252-5369.

FOR SALE SIKES & SCOOTERS .

FOR SALE: Yamaba DT 366-A-1974-Good Conviltion. Heimel included. \$500. Contact S.S. at 255-9846.

FOR SALE: 1975 Kawasaki KZ400 2,600 miles. Excellent condition. See Glenda at GRW library or call me at home after 6 at 263-4330.

FOE SALE: 1977 Yamaba XS-750 Shaft Drive, Mag Wheels, Tecl-rood Luggage Rick & Backrest, 3 Helmets included. 2,300 milles. \$1,500, Contact Mr. Vosbury at AMT Jet Lab or Call 767-730A.

FOR SALE: Motorcycle Trailer, Flat-bed, Henvy duty two ralls, & Fresh Paint 8175.00/or hest, 253-3071 or Box 5252.

FOR SALE: 74 Kawasaki 175 cc Low mileage, excellent condition. Must sell! Call 255-5531, ask for Mark, evenings.

OR SALE: 1976 Suzuki R M-125 A otogrom. Excellent condition. \$650. Salact Brian Box 4121.

8 FOR MALE-BOATS

FOR SALE: 15 ft. Boat-60 HP motor 4 Trailer with top, life inckets, anchor, 2 gas tanks engine. Needs work. \$600 or best offer. 244 14th St., Helly Hill.

OR SALE-MISC ř

FOR SALE: Juliette Camotte inpe record-er. Excellent for classes. Dirt chesp. Contact Steve W. at 252-2277 or Box 4332.

FOR SALE: Living Room Furniture: Couch, Chair, Coffee Table, End Table. All for \$150. Water bed, \$100, 14 Foot Hoble Cat (with Instruction) \$1,200. Contact Lawson at Box No. 2084.

FOR SALE - Automatic Seiko Chrono-graph. Day, Date, 30 minute and 12 Hour Timers, Hardley Crystal, Waterreistant, Like new, Best Offer, Contact Steve W. at 282-2277 or Box 4332.

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