

SCHOLARLY COMMONS

Avion

Newspapers

5-18-1977

Avion 1977-05-18

Embry-Riddle Aeronautical University

Follow this and additional works at: https://commons.erau.edu/avion

Scholarly Commons Citation

Embry-Riddle Aeronautical University, "Avion 1977-05-18" (1977). *Avion*. 341. https://commons.erau.edu/avion/341

This Book is brought to you for free and open access by the Newspapers at Scholarly Commons. It has been accepted for inclusion in Avion by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu.



Daytona Beach, Florida 32014

NOTICES

KAS The Holly Hill Police De-partment is conducting a special five evening seminar for women on the use and safety of hand

on the use and sately of hand ling hand guns. Conducted by Sgt. William Walker, the classes will begin May 24 from 7-9 p.m. Women from throughout the area are invited and there is no age limit to those who attend

To attend, women should fill out an application form before the 24th. Registration fee is \$3.00.

Ownership of a hand gun is not necessary.

associate dean of students wants E-RAU students to be on the look-out for reason bills

The bogus bucks are floating around the Daytona Beach area

around the Daytona Beach area as tourists continue to swarm to the sunny beaches and famous raceway in this city. The counterfeit measey is identifiable by the different paper used. Mr. Agett said that he has already come across two such phoney bills.



US-USSR Aviation Research Detailed

During Meet At **Embry - Riddle**

DAYTONA BEACH, FLA. - Closely coordinated research ef-forts planned to lead to increased safety and efficiency in eight rears of civil aviation are expected to result from the latest meet-ing of U.S. and Soviet aviation officials. The sessions in the U.S. and the Soviet Union are conducted under the 1973 Cooperation in Transportation agreement between the two countries. Chester Davenport, assistant secretary of trans-portanties. Chester Davenport, assistant secretary of trans-torer and the secret secret spelled out during a "mini sym-posium" April 7:11 here. A delegation headed by Mervin K. Strick-er, FAA Ariation Education Programs Division chief, represented the U.S. while Alexander I. Navarov led the Soviet contingent. Accompanying the USSR Civil Aviation Ministry Education and Training chief were Ivan F. Vesin, director of the Leningrad Civil Aviation Academy and Sengei Manichev, general director of staff for personnel. Galina Davylova of Aeroflot Airlines and Walter Steblez representing the U.S. State Department served as inter-preters.

preters. The six day event began April 6 with a series of preliminary pre-sentations at FAA headquarters in Washington, Nazarov and group members were briefed on topics ranging from the U.S. system for Air traffic control specialist training to a proposed aviation fac-

Air traffic Control specialist training to a proposed aviation tac-ulty exchange program. Main discussions were pursued at ERAU's Daytona campus where the Soviets saw the university's operations at first hand. Following a welcome by President Jack Hunt, the U.S.Soviet committee toured campus and the Regional Airport FAA control tower

tower. In talks over the next two days, the two sides agreed to conduct intensive joint investigation and research into aviation study areas including:

- Development of improved methods for flight crewmember se-Program development for maintaining flight skills during breaks
- in flying. Technical aids for pilot evaluation
- Flight crewmember response under stress. ATC specialist training
- ATC specialist training Physiological selection of aircrew members Airline management and managerial training Improved methods of primary flight training

Also, the joint committee heard reports from aviation educators including Dr. William Hasin of Arizona State University and Dr. Robert Hcuston, a director of the American Airlines Flight Academy.

demy. Discussing flight training research at his institution, Dr. J. H. Grosslight of Florida State University told the group that an average of 60 percent of all new flight students don't complete their instruction. "The flight training facility you see here is top of the line. But the majority of flight training in the U.S. occurs at small operations with a few airplanes and a few instructors who have satisfied the FAA that they can teach flying."



OBSERVING U.S. TECHNIQUES-Ivan Vasin (left foreground) and other soviet and U.S. delegation members join E-RAU officials on a tour of the University's flight simulator laboratory. (Photo by Cos-

Speculating on reasons for the 60 percent dropout figure, Grosslight declared: "What could be a poorer classroom than a noisy aircraft cabin, an uncertain and perhaps tense student and an overly verbal instructor telling the student what to do at a sound levei close to the pain threshold?"

A major revision to the joint committee's latest protocol memor-andum was presented by E-RAU President Hunt and included in the final document. In a brief talk, Hunt called for international

annum was presented by Driver talk, Hunt called for international cooperation in developing a prototype integrated flight training system. Such a system would include flight trainers, simulators and similar modern hardware, the president said. "We (educators) need help," he told the combined representa-tives. "During this conference, we have talked about integrated training systems. Ever since I can remember, we have talked about integrated training systems." Rarely has he seen such systems used properly, Hunt said. He suggested that one possible reason for that was people. "We have people who design and build simulators and people who teach students. Unfortunately, it's seldom that the teacher designs the hardware." International Civil Aviation Organization member nations and other countries stand to profit from the continuing conferences.

International Civil Aviation Organization memoer nations and other countries stand to profit from the continuing conferences, said the FAAs Strickler. "It's my belief that what we are doing with the Soviet Union can contribute to the safety and efficiency of aviation on a worldwide basis," he commented. "Thus, if we can save a life and reduce costs at the same time, everyone bene-fits."

Randi-Conjurer And Iconoclast!

ERAU Announces VPs, New Operation

forts at all locations outside the

Earlier Queenan was Specal Projects vice president for Hughes Airwest, bringing to that post 22 years of aviation admin-istrative, consultant and executive experience. Before joining Hughes, he represented R. Dix-on Speas Associates aviation consultants, where he was a member of the board of direc-

Prior to that, Queenan worked for Pan American World Airways for 17 years including the position of direc-tor of operational control systems. In this capacity, he was responsible for the control and committment of 150 jet aircraft

The 55 year old Salem, Mass. native studied business Mass. native studied business at New York's Hofstra Uni-versity and completed the Harvard University Graduate School of Business Adminis-tration advanced management

program. In his new position, Queen-an will organize and institute a wide range of marketing pro-grams directed at future growth and expansion. These programs may involve cooperative educa-tion end training efforts with airlines, aviation industry affiliairlines, aviation industry affili-ates, foreign governments and other agencies interested in E-RAU's capabilities in the avia-tion editection and training program field. Such ventures would be talicred to the cus-tonaer's specific requirements and could be presented either on or off campus, including overnees overseas.

Ledewitz, 30, is the young-person ever appointed as Embry-Riddle vice presiest

The New Haven, Conn. na-tive joined E-RAU in 1972 as director of Counseling and Gui-

dance. In August, 1974, he was promoted to associate dean of Students, a post he held until January, 1976.

January, 1976. Recognizing Ledewitz' out-standing leadership and execu-tive abilities, the University ap-pointed him dean of Student Affairs. In that position , he was responsible for all activi-tion encounter on the termine ties governing or in other ways affecting students welfare and campus life. Ledewitz' new post provides

an even greater degree of ad-ministrative and executive res-ponsibility. In the future, his office also will guide and direct student activities at Embry-Riddle consortia and residence centhroughout the country ters and e

He is a graduate of Stetson and George Washington Univer-sities. He holds a doctoral degree in education from Okla-homa State University.



DR. JEFFREY H. LEDEWITZ Vice-President of Student Affairs nt of



By Jean Snyder Staff Secretary

By Jean Snyder Staff Secretary For many years, it was not popular to denounce the existance of ghosts, demons, psychics or extra-terrestrial "visitors". But Randi, Embry-Riddle's lastest guest performer and speaker is breaking may nyths concerning these purported phenomenon. He is doing this through facts, not theories. Describing himself as a "conjurer, an iconoclast", Randi is in fact all of the before mentioned and more. Born in Toronto, Can-ada, he was a child producy (in math and science), and for many years didn't attend formal schools. By the age of 12. Bandi hearang intrimud with the at of meric

years dudn't attend formal schools. By the age of 12, Randi became intrigued with the art of magic. Later, he developed skills in mental telepathy trickery. While still a teenager he ran away and joined a carnival and be-gan developing his magic skills.

gan developing his magic skills. Since this canvas topped start, he has played before audiences on stages and on TV across the country. During this time, his men-talist tricks were seen by some as real psychic abilities, and many came to him asking for psychic help. It was then he stopped his "psychic" tricks realizing their impact on innocent people.

"psychic" tricks realizing their impact on innocent people. Now, Randi, still performs feats of mac'to college audiences throughout the country. But his real reason for visiting campuses and other organizations is to refute those people who's talk of ghosts, ssychies and unearthly visitors is constantly bombarding that 't' tube with "true statements, and factual evidence" to the articlement. their existance.

their existance. "Many people say I have a negative attitude, but for the last four or five years I have been an iconoclast to these people who are in my profession and are bringing disgrace to that profession. They are taking audiences down the garden path." "I have never seen anything that can genuinely be called super-natural. There might be such things but I have not seen any. I have

natural. There might be such things but I have not seen any. I have the facts to back up my statements. Those people who claim to have facts on supernstural occurences are called scientists. And if we can't trust scientists who can we trust?" Randl is co-founder and member of the Committe for Scien-tific Investigation of Claims of the Paranormal. Members in this committee include Dr. Carl' Sagan, world renounded astronomer, Isaac Asimov, a top science fiction writer of the U.S., and B.P. Skinner, who is an internationally known psychologist. This commi-ttee was founded to investigate and try to prove the reality or fak-ery involved in psychic occu-znces. Randi is also the author of "The Magic of Uri Geller."



Hearve! Hearve!

NOTICE The SGA Traf-

The Court is instituted for the purpose of pass-ing rulings on Traffic tickets given to the

E-RAU community.

NUTICE- The SGA Traf-fic Court will be held Wednesdays at 12 p.m. in the Conference Room of the University C

RICHARD J. QUEENAN Vice-President of Marketing and Development at ERAU

Two new vice presidents have been named to head the marketing and student activities at Embry-Riddle Aeronautical University. Richard J. Queenan has been

appointed vice president of the Florida based university's newly Florida based university's newly created Marketing and Develop-ment office. Jeffrey H. Lede-witz has been selected as vice president of Student Affairs.

The dual appointments were announced recently by ERAU's President Jack Hunt, following the University Board of Trustees annual meeting.

tees annual meeting. Queenan, a longtine avia-tion manager and executive, was Oversease Marketing vice president for Hughes Airwest before coming to Embry-Rid-dle. In that position, he was responsible for the air carrier's marketing and promotional efEMBRY-RIDDLE AERONAUTICAL UNIVERSITY

WEDNESDAY, MAY 18, 1977



PAGE 2

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.



Welcome to Summer! Beach time, sailing, flying, swimming-any-thing but studying, right? Right! I couldn't agree more. If you don't see me on campus, I'll be in DeLand swimming in the lake in front of my apartment. With all this free time you've got to get involved. So, now you're going to tell me that you've got to get studying to do. Which is all the more reason to get involved. Frate-nities, clubs, the SGA, (or even the Avion) sure can help to make your summer more fun. But more importantly, there is inevitably somebody who has taken that course that that's giving you trouble, and he or she can help you or yer the rough spots.

and he or she can help you over the rough spots. So, anytime you hear one of your friends say that there's nothing to do at ERAU, you tell him to poke his head out of his shell, and get involved.

Let me close by giving you a publishing schedule for the summer. Copy is due the Thuraday at 3:00 prior to publishing date; for art-icles covering weekend events, the deadline is Monday morning at 9:00.

Summer A	Publishing Date			
Issue 1	Wednesday, May 18, 1977			
2	June 1			
	June 15			
YYAYYANNANA YUYXAA Summer B	Publishing Date			
Issue 4	Wednesday, July 18, 1977			
5	July 24			
6	August 10			

y A. Lay

LETTERS TO THE EDITOR

I can't help but feel a twinge of pity for the author of April 6 article, (Airlines and Airliners-Ed. Note) in which he described the departure of those aircraft utilized by Daytona's airlines as a "bore". If he, (still a student) finds any aspect of Modern avi-ation boring, it would be to his ultimate advantage to seek a ca-reer in another field.

reer in another field. I am writing on the supposi-tion that I can define myself as the "average" Riddle student. I've been flying for four years and have amassed about 200 bours. The novely of the mi-racle of flight has worn off, be-ing replaced by a deeper feeling, one of awe and wonder. As many times as I've seen it be-fore, I find it necessary to watch those DC:9's, 72's and yes, even our own chicken yes, even our own chicken hawks with my own eyes to convince myself that anything so ponderous and ungainly could fly. I'm not overwhelmed by the roar of the engine, nor do I flush with the excitement of novelty that I once did (and most freshmen do). Instead, sense a subtle miracle in the fact that all those thousands of parts, the intangible laws of physics, the efficient comrod-

QUESTION: Why not show FAA films in addition to the normal films shown on Friinteresting as well as having an educational benefit for all ERAU students. RVA

14

will look into it immediate-ly. Sam W. Stack



ANSWER: No reason. We

QUESTION: Many com-ments have been aired in previous issues of the AVION on the subject of The drivers have iradition-ally been the brunt of the criticism, although pedestrians must also recognize their responsibilities. Persons who insist upon walking 4 abreast along the access



ore of the rrew could combine with the precision of a swiss watch and produce the near meta-physical miracle of flight. I'm not alone. I've seen chlers stopping during the be-tween-class-rush to watch a "routine" DC-9 depart, or even (like myself) to watch a lone C-172 wobble out of the pat-tern.

call it a bore if you must, but to some of us it is art, poetry, black magic and science rolled into one fleeting once-inlifetime experience.

Name withheld upon request.

EDITOR'S NOTE! You have a point, any flying machine will stir the blood of a true aviator (pilot, mechanic,or just plain passenger). But I be-lieve the point Mr. Groeneveld was trying to make was that in comparison to someplace like Miami International, Daytona can be a bit boring if you're looking for something different in the way of birds. Regardless, of his opinion of Daytona, you must give him the credit for his interest and expertize.

FEEDBACK

lanes while care try to squeeze hy are inviting dis-aster. As both a driver and a pedestrian, I have seen the problem from both sides.

problem from both sides. It is not too great a sa-crifice to keep close to the parked cars while walking and to try to keep below Mach 1 while driving. Com-mon courtesy exercised by all parties wilk keep a stroll through our parking lot from being a terrifying, health endangering experi-ence. ence.

ANSWER: What can we say! You said it all.

QUESTION: What is the "proper dress" for students?

AVION

OVERTISING MANAGER ...

BUSINESS MANAGER

LAYOUT ARTISTS.

COLUMNIEYS.

OTOGRAPHY EDITOR ...

HOTOGRAPHERS.

150H....

CRETARY,

niay, May 18, 1977

blished weekiy throughout the academic year and bi-w summor and distributed by THE AVION, Embry-Rid aversity, Daytona beach Regional Airport, Daytona is one 252-5561, extension 313. Trimester Subscription

CAL ADVISOR

PRESIDENT'S CORNER

By John O'Neal

I want to welcome every-one back to school. We will be having a Senate meeting Tuesday and I hope to be able to hire someone for the office so we can have it open. There is no other news so I will close.

John O'Neal SGA President

VP THOUGHTS

We have started off the triwe have started off the the mester with a big bang, the A-mazing Randi was indeed amaz-ing. I simply couldn't believe my eyes and for those who missed the show, it was their loss

Aaron was an exceptional band also. This trimester will be hand also. This trimester will be the best Summer trimester yet. I hope a majority of the stu-dents take advantage of it. This week is the last chance to get involved with fraternities for the summer, don't let it slip by you'll find it there. An evaluation of the Sum-mer State will be in next week's article. We will have had our first meeting by then.

our first meeting by then.

ANSWER: This is a rather open question, so we will an-swer it in the same manner. "Proper dress" we think, would be best denoted by good taste. Good taste includes shoes, shirts, and pants. Men or women on campus without shoes or clothes that leave "little to the imagination" do not fall in-to the category of good taste.

On the other hand, if it is the weekend and you are re-turning from the beach and want a coke, a dash into the U.C. in your bathing suit would not be a no-no. USE COMMON SENSE.

Sam W. Stack, Director of Student Activities.

STAFF

SEFFREY M. RUBIN

KENNETH KEZNE

AMANDA BEAUCHAMP ELLEN NAGOURNEY

IGNACIO FALCO FELIX A. CARCIA BART GROENEVELD

MARTY BECKER RAY KELLY AMELIA WINTERBOTHAM

BILL DOLLAWAY

VACANT

LEE HANSEN

JEAN SNYDER

Volume 26, Issue 1

and bi-weekly throughout mbry-Riddle Aeronautical sytona Beach, FLA., 32014 reriptions - \$3.35.

RAY XATZ

VACANT

VACANT



WEDNESDAY, MAY 18, 1977

Whitten On Sunday

MARQUEE

Playhouse 77-78

Season Announced

Here I Come With... By Folix A Cami

Robert L. Bast, the pastor Garfield Park Reformed med af of Garfield Park Reformed Church, Grand Rapids, Mich., said "I confess my sin." Mr. Bast was one of 22 men arrestbast was one of 22 men arrest-ed two weeks ago on charges of attempting to solicit women police officers posing as prosti-tutes. Among those arrested were prominent businessmen and the principal of a school. The minister not a strading one The minister got a standing ovaafter his confession in tion church Sunday. God bless you, Bob! You confessed, but were you sorry?

According to a recent issue of Alcohol Information Digest, American laws are lenient with drunken drivers compared with those of other countries. The article says that in Turkey, for example, drunk drivers are

for example, drunk drivers are taken by police 20 miles from town and forced to walk back. In Australia, the morist's mame is printed in the local newspaper under the heading, "He is Drunk and in Jail." In Malaya, the drunk driver is clapped in the calaborse. If he happens to be married, his wife is locked up too. And in South Africa, the

And in South Africa, the penalty for driving while in-toxicated is one year in pri-son, a fine of \$10,000, or

. **************

Last February, a prisoner escaped from the city jail in Forth Worth, Texns, by pick-ing up a broom and sweep-ing his way out of the building. In other words, it was a clean get-a-way! Makers of some of America's

most popular products as Ken-

ALUMNI Embry-Riddle's graduate program is growing and achievrecognition envisioned by ing recognition envisioned by its initiators some three years ago. As this fiscal year ends, an average of 55 students per term will have accumulated approximately 400 course en-rollments per year in either the Master's in Aviation Man-agement or Aeronautical Science degree programs. More than 25 individuals have grad-uated and have found eainful uated and have found gainful emloyment in aviation or close-ly related fields including airport consulting, aircraft man-

port consuiting, aircraft man-ufacturing, airclines and air freight operations. The purpose of the graduate programs is to produce future leaders, directors, managers, and supervisors with a high deand supervisors with a high de-gree of competence who have have meaningful learning ex-periences under the finest and most competent guidance a-vailable. In the past, ERAU graduate students were person-nel, who had already established nel who had already established themselves in aviation careers; however, many of our campus

Ralph Blanchard B.S. Aviation Management Embry-Riddle Aero, Univ. Revenue Analyst Director of Budget, V.I. Michael A. Bergagnini Homestead, Florida B.B.A. University of Miami Sujv.-Payroll Accounting Steven R. Bray New York, N.Y. B.S. Air Commerce FL Inst. of Technology Airport Operations Supv. Traince-Port of N.Y.& N.J. Larry W. Carr Miami, Florida B.S. Business Administrat Fla. Atlantic University Customer Services Rep., Delta Airlines B.S. Aviation Management Embry-Riddle Aero. Univ. Kingsely C. Clarke Barbados, W.I. civil Aviation-W.t. Michael J. Donovan Grapevine, Texas B.S.Psychology University of Wisconsin Asst. Mgr.Operations Dallas Ft. Worth Int'l. Airport Clifford Fitzgerald Miami, Flurida B.S.Business Administration Boston University First Officer-Delta Air Lines Oliver E. Gagne, Jr. Cincinnati, Ohio B.S. Aviation Management Embry-Riddle Aero, Univ. Management Trainee-Landrum & Brown Airport Consultants Philip W. Harrison B.S. Aviation Management Embry-Riddle Aero, Univ. Management Trainee Thomas Kenna Mizmi, Florida R.S. Accounting San Jose University First Officer Delta Airlines B.B.A. Marketing Management Southern Methodist Univ Charles C. Lyons Tulsa, Oklahema d Lieutenant-U.S.A.F. Wayne Mills Wouston, Texas Cessus Pilot Center Repr. Cessus Aircraft Co. E.A. Psychology Nicholls State Univ. Louisis Vusy Pawat Sichmond, Va. B.S. Mechanical Engineering Bombay Univ. India Air Pollution Control State of Virginia Juel Russel New York, H.Y. B.A. Economics, LaFayatte College Essten, Pann. Airport Manager-Pan Am Neil H. Satks Miami, Florida B.S. Humaness Administration New York University Senior Manpower Planne Eastern Air Line Barry Smith Miami, Florida B.A. Economics University of Massachusetts Sales Representative Piper Aircraft Co.

tucky Fried Chicken, Coca-Cola and McDonald's hamburgers go to amazing lengths to keep their trade secrets from falling into the hands of their fast-food com etitors

Only five people know the identity of 11 herbs and spices which are blended with the batter for Col Harland Sanders' Kentucky Fried Chicken, said Ray Callender, a spokes-man for the Sanders Corpor-ation to Don Horine a newsman for

on to Don Harrier. The Enquirer. The formula for the syrup The formula for the syrup used in amking Coc-Coia has been zealously guarded since it was created in 1886. Will-bur G. Kurtz, historian for the company in Atlanta, Ga., said that less than 10 employees know the formula and that

know the formula and that "the company discourages any two or more of them traveling together in the same plane." A spokesman for McDon-ald's declared that any infor-mation concerning their spices is considered confidential.

Education Minister Rene Haby (France) said that school students will not be given Sat-urdays off in his country. Haby said that scientific studies have shown that long weekends "often have a disastrous effect on schooling." French young-sters like doctors get Wednes-day afternoons off.

Raquel Welch: "Sex is not a question of the body or mea-surements or curves. It is in the mind." She also has a good mind! ******************** So long!

NEWS graduates are continuing their education pursuits in the grad-

uate program in Miami. We have received numerous

inquiries from military sources and the civil and general avia-tion communities as well as the home campus for expanding home campus for expanding our graduate program. We are studying the feasibility of im-plementing new programs in response to these inquiries. Inasmuch as our primary con-cern is offering the highest quality program possible, we will make every effort to insure that all elements necessary for the maintenance of a viable quality program are present and can be maintained before we initiate or expand any of our aviation programs.

The following list gives some The following list gives some idea of the employment posi-tions found by the graduates from the Master's programs. As can be seen the jobs are diverse in scope, and interna-tional in location. The grad-uate program might be some-thing to consider.

Daytona Playhouse The Board of Directors recently se-lected the plays for the 1977-78 season Eract netformunce will be set during May.

2

Opening the season will be the rousing musical "HE UN-SINKABLE MOLLY BROWN" by Meredith Wilson. The sum-mer production will zum week-ends only this July and August.

The October show will be a comedy by Jules E. Tasca which originally starred Phy-llis Diller. "SUBJECT TO CHANGE" calls for a small cest of adults.

A Lilliam Hellman drama, ANOTHER PART OF THE FOREST", will he presented the end of November and first of December. A cast of eight and five women is reouired.

"THE KING AND I" which calls for a large cast, including several children, will be presented the end of Janu ary and first of February. The Richard Rodgers and Oscar Hammerstein II musical has re-

10

R

os s

W

0

Ř

D

CROSS

6. Genterl and elegant

8. Get away

10. Wespon at Balaklava

11. Othello, for

13. Remodies

14. Increased 14. Increased 17. Legal cla 18. Frock 19. Krieg or

20. Very al

26. Urges en

30.

34

of low sity and dared

Brought against Dawdled

Shown live on tape Re "lives it up"

35. Iran expart

1. Gala at

dial mes: 2

cently been revived on Broadway with Yul Brynner recreat-ing his original role as the King of Siam.

happenings at your theater

COMING SOON

The Terence Frisby connedy, GIRL IN MY SOUP", will be scheduled sometime in March. Gig Young starred in the original Broadway production. A small cast of adults is needed

A second drama, "NIGHT OF THE IGUANA" by Tenne-see Williams will follow in late April. Many will remember the movie version which starred Richard Burton, Ava Garder and Deborah Kerr.

Closing the 1977-78 season will be a fun musical by Fred Ebb, Norman L. Martin and John Kander. The theme is what happens when a group of Senior Citizens decides to supplement their Social Secur-ity. The play is "70, GIRLS, 70" and should be fun for performers and audience.

If you are interested auditioning for any of the plays watch this paper for audition dates and information.

Reliai

Painter "Th: D from th Crees"

Pairs

8. Feel concern

9. Undesired: 2

12. Responded to

- down, become mos strict with

14. Bubbles up and vaporises

15. Birds with big

18 Per mined

18. Andacity; impudence

Equal Equal He lad the Israelitan from Egypt

32. Zan Zan's sister

21. Heckled 22. Pennilem

30. Eight fo

28.

Beautiful moming, like the others during this season. Clean flying suit, polished flying boots, good breakfast and ready to fly again as usual but some-thing was weying for me to break my samost daily rou-ting. tine.

tine. The aircraft: the little but exciting T34 Mentor, the stu-dent pilot was a young man, 19 years old, with flight ex-perience of about 35 hours. OK, pre-flight, start, taxi, to runaway, take-off, everything fine. First traffic pattern OK, second one way way doed third

fine. First traffic pattern OK, second one very good, third one the same thing and taking off again for a fourth one. Eighty knots and landing gear up, 2400 RPM, 100 knots cimbs speed. Three-hundred feet above the plan-t, the runway behind us, and what: the engine started to couge really rough and of course, we started going down for an emergency landing! Let's same whot we hed for

au. an emergency landing! Let's see what we had for clean belly landing: houses, d more houses, a base-ball and more houses, a base-ball field to our right and a beautiful highway just in front of our three noses (including the Mentor's nose) at about one-half a mile (I really thought it was at about two miles.) In a few seconds I checked the instruments and

the instruments and saw the fuel pressure indicator telling me had things, the same thing happed with the RPM and the manifold pressure.

I immediately tried to change the fuel valve from the right fuel tank position to the left tank position without see-ing it, but my experience (about 600 hours in this bird) made me feel that the fuel valve was not either on the left of was not either on the ieft or right position at that moment, so I saw that the young man in the front seat was trying to change the valve from the right to the left tank position but so slowly that the intermediate position of the valve originated a lack or a biockage of the fuel flow from the tanks to the carburator.

Well, I positioned the valve to the left, then the full booster to the left, then the run booster pump ON and in a few seconds the engine was trying to run again. With the irregular power again. With the irregular power available we just made it: a good and lucky landing on the highway with a lot of breaking to avoid hitting a big truck on its back. Then, a lot of cars and people! A few minutes la-ter the police and national guard cleared the arca, I check-ed the engine, and then we took off safely and returned to the base where they were waiting for me to fly my two other assigned training missions of that almost routine morning! It was then like "nothing had of that almost routine morning! It was then like "nothing had happened here." This was a good "break" from my rou-tine and provides another ex-perience of my life as an in-structor pilot.

***** HOT MONEY-MAKING OPPORTUN-ITY for creative students setting PUDDLE JUMPERS — the world's newest flying sport Summer or school year. Travel possibilities tool \$1.00 for sample & complete infor-mation folder. Includes postage & hardling. mation folder. Includes postage & handling. You can even become a distributor & Abee your own business! AEROMANIA Inc., Box 246-S Mountain View, CA 94043 or call (415) 961-5564 -----

daytona beach 🚔 aviation WE CARRY A COMPLETE STOCK OF PILOT SUPPLIES • SPECIAL ORDER AVAILABLE IF NEEDED I CHARTER SERVICE AVAILABLE we rent: CESSNA 150 AT \$16.00 PR HR WET DONEY RANGER PIPER APACHE MOONEY RANGER CESSNA 172 If you are checked out by an Embry-Riddle instructor and are current. no check required by Daytona Beach Aviation in C-172's

> *** Mooney AND Cessna SALES AND SERVICE offered!! *** at the base of the tower - call 255-0471



PAGE 4

Kennedy Space Center

Awards Grant To

Kentucky State

University

KENNEDY SPACE CENT-ER. Fla.--NASA's John F. Ken nedy Space Center has award-ed a \$39,812 grant to Kentucky State University, Frank fort, Ky., to continue research on the effects of prolonged sure of experimental ani-to moderate deviations mals from the normal atmospheric vel of exygen. Much study has be

ducted on the effects of shorttime exposures to 100 per cent oxygen for man and some experimental animals. But little is known about prolonged ex posures to exygen at low to moderate concentrations. Ken-tucky State was awarded an original grant in March1974, to initiate

initiate a study. Since that time, Kentucky State has made significant dis-coveries that may be useful to NASA in planning atmos pheres for future maned space missions; particularly with the prospects of long-term missions aboard the Space Shuttle Orbiter, and more distant possibiliuch as space colonies.

Using vinegar flies as sub-jects for the experiments, re-search has thus far shown that higher levels of oxygen have drastically shortened the life span of the flies, while span while levels have greatly reduced their reproductive capabilities

Genetic research with the vinegar flies suggests it may aday be possible to iden-individuals who are bet tify adapted genetically to



The Veterans Association Embry-Riddle is proud to viation of nounce the formulation of its women's auxiliary. This elite group is being organized un-der the auspices of the Vets Club, and is founded to maintain a kindred spirit within both memberships

This charter group is tem-porarily nameless, for the Vets Club respects the right of its female auxiliary to institute their own logo. Also, the membership is not to be restricted in any form or fashion. This is in-deed an open and liberated out-look in accordance with Vets Club policies.

Invitation is initiated by this Invitation is initiated by this letter, with the desire for your acceptance as the ultimate out-come. Please conside the esprit, gratification, ersonal down to earth fun you will ree by joining.

WITH VETS CLUB

Sincerely yours Robert Allen

RIDDLE

PACKERS

The Riddle Packers are back again for another Trimester. We

have many action packed week-ends being planned for the sum-

mer, so if you want to get away from this "Asylum" for a week-end, Join the Packers. First meeting is Wednesday,

May 18th at 7:30 p.m. in the Common Purpose Room. Hope to see you there!

urvive in abnormal oxygen environments.

Study under the new grant will investigate the secondary gas effect-the ability of nitrogen to prevent damage to the breathing passage cells by supporting them after the oxygen has been absorbed--and the damage to brain and lung tissue by high oxygen concentrations which may be an accelerated rate of normal aging effects.

The \$39.812 award brings a total amount of KSC's the grants for Kentucky State's study to \$138.752.



The E-RAU Sports Scuba Diving Club will hold the first meeting of the Tri for new members today at 6 p.m. in the Common Purpose Room, Uni-versity Center. There will be a movie on Scuba Diving and re-freshments. Treshments. This is a good opportunity to meet the active members and sign up for your share of the great diving that Florida has to offer. For more Into-Contact Jess, Box 5043 or Greg at Box 10°24. All inquiries should be ad-dressed to the Vets Club, via the Used Bookstore. We eager-ly await you correspondence. AUXILIARY FORMING

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

.0:

By Capt. "Bacl

We are sure everyone emoy ed their semester break; how-ever, all good things must come to an end.

to an end. Last weekend the "WAD-ERS" had a very successful pic-nic at Sun Glow pier. All par-ticipatns were able to eat to their hearts content. Some peo-ple even ate a side order of crow

Rumor has it the chapter is planning a gala event, at Po Inlet to cheer on C.J. "Stre pla reak" Stevens in the upcoming Spanish Armada seadog race. Since Commander "Streak" finished 12th of 13 racers in his last outing, we feel he will need all of our support to get that 1st

Jan Steward has not be fishing lately because she on had a reel and a short line. However, she was seen over the owever, she was seen over the eekend with her "ROD"ney hand heading for the beach. Next week's article will fea-ure such notables as "Crash" urtain and "Hop-a-Long"

Curtain Tubbs.

The author was aked to stand in for Jan Stewart, our publicity chairwoman, until she loses her Rod again.



Course Offered The Pre-Cana Course

for The Pre-Cana Course for young Catholic couples plann-ing to be married will be held on Tuesday and Workesday, May 24 and 25, at 7:30 - 10 p.m., at St. Paul's Church Rec-tory, 360 North Ridgewood Avenue, Daytona Beech. Per-sons who are not Catholic are also welcome to attend. The two sessions will cover

The two sessions will cover areas such as human sexuality, economics, and skills of com-munication. Should any couples be separated geographically, the in this area should come and later share with the partner whatever insights were gained. The sessions will be infor-mal, so come to ask questions nd disc

SORRENTO DELICATESSEN, INC.



One of the h.ggest causes in today's general aviation acci-dents is weather, so doesn't it seem logical to emphasize ather strongly in the present flight training curriculum? It sure does, but most of the time it is up to the pilot to find out all he can about this dynamic

subject The single most important asset any pilot can have is a positive awareness of the weather; so that if things change, an alert pilot will have a plan already set up. Having in al-ternate plan of action to any weather problem will eliminate the struss and tension that could possibly lend to a had de-cision and thus give the pilot the confidence he needs to make the decisions for a safe make the decisions for a sale and complete flight. When a decision dealing with weather, or any decision on a flight for or any decision on a fugat for that matter, is made by inde-cision, then the pilot has back-ed himself up against the wall where the only way out may be the wrong way. Since I believe the root of the problems dealing with weather start at the beginning, or lack of a begin-ning, let's examine this begin-ning-the weather briefing.

hing, he's examine this begin-ning-the weather briefing. Checking weather for a flight should be the same either VFR or IFR with the only difference being in empha-sis. VFR, a pilot is concerned with ceiling and visibility to-

with ceiling and visionsy witally. If the ceiling and visibility are good he goes, if not, he stays. As he progresses in his flight the VFR pilot wants to know if his weather condi-tions will stay VFR and if not, what he can do and where can be and and where and state





"It marks a big step in a n's development when he an's omes to realize that other men an be called in to help him do ed in to help him do a better job than he can do along." Andrew Carnegie

"Man's mind stretched by a new idea never goes back to its Priginal dimensions." **Oliver Wendell Holmes**

WEDNESDAY, MAY 18, 1977



The Art Of Self Briefing

By Raymond M. Kelly

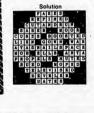
he go for VFR. A lot of VFR pilots have bought the farm try-ing VFR flight in sdverse or IFR weather. The system of priorities change when flying in ac-tual weather and a VFR pilot is NOT able to cope with the NOT able to cope with the change. Read some of accident reports and you'll find a lot of IFR pilots not able to cope with system change either. What to do about it? Make

sure during your briefing that there is VFR weather along the route, if not, make an alternate plan of action so that you fly plan of action so that you hy around the weather or be on the ground when beacon comes on. The important thing in your briefing though, is awareness of the IFR weather and ylans for it's avoidance. IFR, a pilot is not too con-cerned about ceiling and visibil-

ity: he is only concerned at a selected stations but is few selected stations but more interested in a basic cross section of his route an whether or not his big nemise and exist, thunderstorms, ice and

fog. Obtaining a cross-section of the weather is easily accom-plished when studying three basic charts - the surface analysis, radar summary, and wea-ther depiction chart. From these charts, the IFR pilot can tell what is causing the weather, and whether or not his three weather problems exist in rela-tion to his proposed route of flight.

This concludes the first in a seven part series dealing with weather briefings. In the next and subsequent articles we will deal more specifically on briefings taking hypothetical flights in account.





AVION STAFF PHOTOGRAPHER



In the K-Mart Shopping Center

SUBS, HEROES, RUBINS, & PI77AS DAILY SPECIALS ON DINNERS COMPLETE NEW YORK STYLE DELICATESSEN

Part 1

By Gr As the number of sirplanes, instructors, and flight students increase, the problems involved with flight scheduling have be-come very complex. The basic tudent gets scheduled for the correct flight activity at the cor-rect flight activity at the cor-vert time, on the correct day. In addition to this, the utiliza-tion of aircraft, instructors, and ground trainers must be kept at the maximum possible to keep the training cost to the stud-ent al low as possible. The system has evolved over help sense and the schedulent during the second over the years from a system of man-quiling to a manual master sche-

duling to a manual master sche duled system. With the small duling to a manual matter sche-duled system. With the small numbers of instructors and stu-dents involved, the communica-tion logistics of who is schedul-ed when, were not too diffi-cult to handle. However, as the work load increased, the logis-tic problems of the manual system became too areast to stem became too great to pe with. In 1975, computersys prepared scheduling was intro-duced with limited success. The major drawback of the first

attempt at computer schedul-ing was the long-time span be-tween preparation of schedule request data by flight instruc-tors and the execution of the

Flight Schedule System

g Nelli scheduled activity. The system was proze to generating human error, causing a schedule with limited execution. The system was orientated at high utilization of aircraft with little regard for student progress or training considera-tion. Priority problems became so acute that a manual input screening system had to be put into alace to insure a fair distriinto plas e to insure a fair distri bution of resources. The overall effectiveness was limited to fol-lowing standardized procedures with very little room for spec-ial situations requiring a prior-ity for an express earther.

ity for one reason or another. With increased computer With increased computer capability on scheduling prob-lems, a task force was commis-tioned to review all conceiv-able scheduling problems, solve them, and develop and imple-ment a new system to handle all possible scheduling situations to insure proper student pacing while keeping a high resource utilization. utilization

This system is in the midst of development now and will continue through to completion during the summer. You will no doubt be hearing more about this system as it develops and is put into place.

can trip the uir flow and cause the flow to become tur-bulent. This-would cancel out the increased efficiency which

would be possible with is flow.

-

Jet Flights Underway

port with a potential 20 to 40 port with a potential 20 to 40 per cent fuel savings. The advanced, long range aircraft will probably utilize laminar flow control technology which is dependent upon smooth air flow over the wings. However, it has been found that impacted insects which stick to the leading edges of the wings

nts were dir ected at seeking

The plane was being operated out of the Kennedy Space Center's aircraft facility at

KENNEDY SPACE CENT-Research Center at Edwards, California, is flying in Florida to gain more information on the effect of insect impacts on the leading edges of aircraft

Patrick Air Force Base during the weeks of April 11-18. The

ley Research Center, Ha npto

ER, Fia.--A amall jet transport out of NASAs Dryden Flight

wings.

ut bigger and more varied types of insects. The program is being jointly conducted with NASA's Lang-

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

What is the procedure for removing broken exhaust Question 7: stude Answer: Use penetrating oil, drill center of stud and rem

Question 8: If it is necessary to remove a cylinder with low time (less than 50 hours) must the rings be replaced? Answer: Not unless cylinders were removed for an oil communp-tion problem. When reinstalling sylinders, make sure rings gaps are sta

Question 9: At what number of hours should piston rings be changed when a clylinder is prematurely removed Answer: We have used a rule of thumb over the years of anything in excess of 100 hours, the rings should be replaced

isetion 10: Should I use oil additives in my engine? iswer: Any FAA approved aviation oil has all of the necessary ingredient to properly lubricate our engines. Do not use oil add-Question 10: Answer:

Question 17: If my crankerse oil appears dark and dirty on the dip-stick, does that mean it's time for a change? Answer: The appearance of the oil is not the answer when to change. Today's highly dispersant oils tend to become dark soon after they are put into an engine because they keep in suspension the particles that would cherwise form deposits. Time since your lasi change is the most relieble criterion.

Question 12: If dispersant oils keep particles in suspension, so these particles act as abrasives and do more harm than good? Answer: Most are soft sludge and minute carbon particles. Typical metal and dirt particles large enough to do significant abrasive damage are trapped by the filter.

(PERMISSION TO REPRINT: Permission to reprint material fro the Avco Lycoming "Flyer" is granted, so long as the co information remains intext and appropriate credit is given.)

WEDNESDAY, MAY 18, 1977

Maintenance News

Question 1: Question 1: How often should fuel injector nozzles be cleaned? Answer: At each 100 hour inspection, or whenever nozzles become plugged; (indicated by high fuel flow on the gage, and/or rough en-

Question 2: How could a plugged fuel injector nozzle cause an oil fouled cylinder? Answer: The lack of fuel and no combustion pressure allow to bypass piston rings, thereby giving a fase imprethe oil e impression of ring problems.

Question 3: What is the average expected life of a fuel injector noz-

Answer: At least overhaul life of the engine.

What would indicate a shorted shower of sparks Question 4. vibr

Answer: It would cause it to stay in the retarded position with the left magneto showing a high drop because of a slowed RPM.

Can oil temperature be manually adjusted? Question 5:

Question 6: Should anti-seize compound be used on spark plug in-stallations?

Answer:

er: Use only a small amount and don't put it on the first thread because it could be possible for it to run down over the electrode end of the plugs thereby bridging the electrodes and shorting out the plugs.

Manpower To Employ More Than 25,000

Manpower, Inc., the world's largest temporary help firm, expects to have jobs for more than 25,000 students with office work skills throughout the coun try this summer, a substan-tial increase over last sum-mer, a substantial increase over last summer, according to Mitchell S. Fromstein,

President of Manpower. "Every year students add an important dimension to our workforce. This year they'll play an even bigger role becau

they'll play an even bigger role because of the opti-mistic job forecast Manpower has received from business-men," Fromstein said. A recent survey of 5,000

A recent survey of 5,000 businessmen nationally con-ducted by Manpower indi-cated business hiring is on the upswing with a growth projected for this spring and summer in the service

and summer in the service and retail trade areas. When students go looking for jobs, they swell a part-

time U.S. workforce that time U.S. workforce that already includes some 16 million people. Ironically, students may not get a job because they overlook their competitive edge. Many of them have a marketable office skill and don't know it.

office skill and don't know it. "Manpower offices are amazed at the number of stu-dents who come in, fill out their applications, and don't even mention that they can type, take shorthand or oper-ate a business machine. These are good skills which we need," Fromstein said. Fron stein said. One of the reasons that stu-

One of the reasons that stu-dents may overlook these skills is that they have their sights set on a more distant goal-a case of not being able to see the forest for the trees. From-stein said that students who type term papers for themselves and their friends often have typing rates as high as a highly typing rates as qualified typist.

typist or office machine oper-ator can usually find a job with

opportunities that don't require are varied. Many are wom as much skill, such as inven who re-enter the workfor

as much skill, such as inven-tory takers, maintenance work-ers, etc. "If you can type a good pa-per for a stiff-grading instruc-tor, the chances are you can work 1/or Manpower," he said. One University of Denver student, Mary Kay McNulty, uses her typing ability to tra-vel the world with Manpower. Mary Kay lives in Milwaukes.

uses her typing ability to tra-vel the world with Manpower. Mary Kay lives in Milwaukee, Wisconsin and during the Christmas vacation whe works in Manpower's Milwaukee office. One summer she decid-ed she wanted to stay in San Francisco and worked in Man-power's office there. Fromstein said Mary Kay is just one example of the many students who take advantage of Manpower's Work Travel pro-

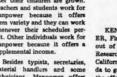
Manpower's Work Travel pro-gram. Under this program, a student who establishes a good work performance record in one city can transfer to another Manpower office in another city

Reasons for entering Man-powers's temporary workforce

are varied. Man, who re-enter the work after their children are gr etudents wor after their children are grown. Teachers and students work for Manpower because it offers then variety and they can work whenever their schedules per-mit. Other individuals work for Manpower because it offers a supplemental income.

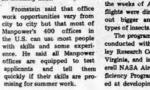
Besides types, material handlers and some technicians, Manpower offers positions as systems analysts and keypunch operators. Stu-dents can find jobs as survey interviewers, sample distributors, or they may h out at conventions, or we on assembly lines. work

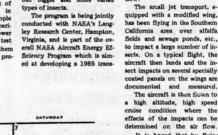
Fromstein said that office work opportunities vary from city to city but that most of Manpower's 400 offices in the U.S. can use most people



workforce

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	. / FRIDAY	SATURDAY
MAY DAY	2	3	4 ORIENTATION 4 REGISTRATION 4	S ORIENTATION REGISTRATION	6 ORIENTATION 4 REGISTRATION MOVIE:The Getaway TGIF "Servant of 2 Mastern" Play. DBCC 3 p.m.	7 Upward Board Takest Bhow A Enaity 7:30 UC Dining Ruots "Servant of 2 Marten" Play, DBCC 8 p.m.
8 MASS: 10:30 a.m. Protestant Services: 11:16 du	9 Claure Begin Riddiadiers Mig. P/SL 6 p.m.	10 A STUDY OF THE BOOK OF DANIEL 6 p.m. Pac/Staff Loungs AlAA Meeting 7 p.m. CPR	11 LAST DAY TO ADD TREM A COURSES AVION-Open Meeting 3 p.m. Scuba Chub Meeting CPR-6 p.m. Ed. of Visitors Meeting CPR-6 a.m.	12 Alphe Ets Rho Meeting CPR-8 µ.m. CCO Meeting-CPR-3:30 Kurste Mite. 4:20- Derm Anters	13 Lecture of C. Banger Calcurs 2 p.m. C. Dialow MANAZING R.NDI U.C. Dinkig Asset Sp.m.	14 1 Voli Chub Weicome Party at Cypress Village 6 y.m. Lambda Chi Alpha meeting F/S 7 p.m.
5 MASS-10:36 a.m. Protestant Services: 11:15 a.mU.CCPR	16 Payment Deadline. LAST DAY TO ADD FULL SUMMER TERM COURSES STUDY SNILLS SZMINAR-9:30 a.m. CFR	17A STUDY OF THE BOOK OF DANIEL 6 p.m. Pac/Staff Loung AABON "Neonet" Concett 8 p.m ADM-42.50U.C. Dialag Study Skills Seminar- P152. CPB 1:30-2:30	18 Seuba Club Meeting CPR-6 p.m. Signa Chi Smoker 500 S. Ridgewood Ave. 8 p.m. Study skills Seminar P152-11-11:45 s.m. Hig. SoftLalj intranural- 4:30 p.mDorm Annex	19 Formerly Martied Catholics Association Meeting-CPR-8 p.m. Alpha Ets Rho Meeting F/S Lounge-8 p.m. Bowting at Halfva Laser. Mig. 2 on 2 Basketbull Tourn-4:30-Dorm Annex	20 AAAA Meeting PR-5 p.m. Movie:CATBALLOU	21 Upwed Scend Awards Bangust-U.C. Dining Ares-7:30 p.m. V-34 Cho Cut Racing & Camp Out 9 s.m. Lambda Chi Alpha Meeting-9:57 p.m.
22 MASS-12:30 cm. Protoriant Bordees: 11:10 a.mU.CCPR	23 Riddh Skien Mia. Vjet Sp.m.	24 A STUDY OF THE BOOK OF DANIEL 6 p.m. Fac/East Lounge AIAA Meeting-7p.m. CPR	25 Seath Class Merting Crystepan.	26 CCO Meeting CPR-3:30 p.m. Alphe Eta Rho Meeting F/5 Lourge® p.m. Bowling at Malifes Lange	21 CRACEWOON DRADEATON DRADEATON	28 Lambda Chi Meeting P/SL7p.m.
MASP-10:30 a.m. Protentant Services 11:15 a.mU.CCPR	30 MEMORIAL DAY Univer By Closed	A STUDY OF THE BOOK OF DANIEL \$ p.m. F/SI.	April 5 M T W 3 4 5 M T W 10 11 12 13 17 18 18 20 24 25 28 27	1977 June 1977 June 1 - 5 M T W 7 - 5 S M T W 7 - 5 S - 7 - 1 14 15 10 12 12 13 14 15 14 15 10 14 15 12 21 21 21 20 21 21 21 21 21 21 20 21 21 21 21 21 21 21 21 21	Real Provide P	





determined on the air flow. It is hoped that by flying in the Kennedy Space Center area in Florida and possibly possibly in June or July at the Johnson Space Center in HOuston, Texas, a different type size or quantity of insects can be enounter

More extensive testing can then be done on materials and methods which will prevent impacted insects from adhering to the leading edges of the wings.

American Airlines

Places Orders For

Nine Planes

NEW YORK, May 2 - American Airlines will place an order with the Boeing Co. for nine 727-223 airplanes for delivery

in late 1978. Albert V. Casey, the airline's chairman and president, said these and other new aircraft on order will replace older 707s that are less fuel-efficient and that fail to meet federal noise stan

The order will bring to 30 the number of Boeing 727s incheduled for delivery to Amer-can in 1977 and 1978. the



For my second round with the typewriter while writing for this

For my second round with the typewriter while writing for this, column I thought it might be interesting to talk about a particular airliner. I'll throw some technical and historical stuff at you relating to my personally favorite airlier, the Douglas DC-9. The DC-9 has always caught my eye, ever since if first went into service in the mid-sixties. It has a mther cute, cuddily look to it, al-ways happily aipping down the taxiway, all if were saying proud-by, "Look at me, I'm a DC-9!" - well, that's the way I think about it, anyway. Very different from the Boeing 727, which to me has a mther serious, note to the grindstone, businessilie clook to it. . It is now a full 12 years after the first flight of the Douglas DC-9 twinjet transport and it's still being built at a steady arte, the total number built to date fast approaching the 1,000 mark. . During that 12 years the -9 has been improved and changed ac-cording to the typical Douglas style. As a result, this spunky little jettimer has grown from just over 104 feet in length to a little over 134 feet. Any of the models with the exception of the first one can still be ondered from the factory in Long Beach, California. The air to have been an accompliance duccess in every way, providing the head to have the interstore the set of the spin to have the set of the spin the set of the spin the set of the spin to the spin the set of the spin to the spin the set of the spin to liner has been an accomplished success in every way, providing the backbone of a large number of airlines today.

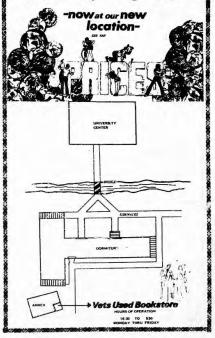
The concept of the DC-9, its design, maintenance and operation have been kept in the simplest manner possible to ensure complete reliability and the lowest possible purchase and operational costs. Both pilots and thousands of passengers have been impressed by the DC-9

The design study data on the Douglas Aircraft Company Model 2086, as it was known then, were released in 1962. Design work be-gan that year. Manufacturing of parts was started in july, 1963 and assembly of the first airframe began on March 6, 1964. The DC-9 first flew on February 28, 1965, one full month abcad of schedule. has new on reprintly 26, 5900, one thil morth alread of scheduler. Five DC-95 were flying by the end of June, and logged more than 1,300 hours in the flight development program. These alreads were of the basic version now know as the DC-95 series 10. It was certificated for commercial operations in November of 1965, and first entered service in December with Delta Air Lines.

and first entered service in December with Delta Air Lines. It was specifically designed to operate from short runways and on short to medium range routes and brought jet speed, comfort and reliability to hundreds of communities previously served only by propeller-driven aircraft. Several additional models of the 9 provided a wide range of designs tailored for maximum efficiency under various combinations of traffic density, cargo volume and route distances covering less than 100 to more than 1,500 miles. The DC-9's are identified by their series numbers: the Series 10, 20, 30, 40, and 50, it can be easily identified visually by it's low-to -the ground look, clean and unclutterd wings, a tail T'shaped tail structure and two turbofan engines mounted on the rear part of the fueslage. the fuselage

Variety of books! Excellent service! Terrific prices! Student text trade-ins!

The Vets Used Bookstore is for every student on campus, NOT just Vets I



The very first version of the -9 (the Series 10 Model 11) was powered by two Pratt & Whitney JTBD-5 turbofans producing 12,500 pounds of thrust each. It is 104.4 feet long, has a wingspan of 89.5 feet, its tail rearing up to 21.6 feet. Underfloor baggage vol-ume measures 600 cubic feet. The cabin can accomodate up to 30 passengers. This airframe was quickly improved by replacing the two JT3D-1's with 14,000 lbs, thrust JTBD-5's, increasing allowable gross weight to 31,800 lbs. The DC-9-30 first flew in 1966, and is now the most common trees of .9 to be found by far. The major change over the Series 10.

The for the found, by far. The major change over the Series 10 is a 15 foot fuselage extension, bringing the total length up to 119.3 feet. The aircraft could now accomodate up to 115 passengers. Car-go volume was increased by 295 cubic feet and the wingspan in-creased by four feet to 93.4 feet.

creases up tour rest to 93.4 feet. The basic wing was redesigned by addition of full span leading edge slats. This enables the Series 30 to have takeoff and landing performance at least as good as the smaller and lighter Series 10. Contributing to the added performance is the JT8D-7, producing 14,000 bbs. of thrust at all atmospheric temperatures up to 85 de-grees Fahrenheit. The first delivery of the Series 30 was to Eastern in January of 1967. A third and slightly larger model the Series 40 was to the start

in January of 1967. A third and slightly larger model, the Series 40, was also deve-loped. The principal diiference between it and the-30 is length. Two 38 inch sections were added to the fuselage, one forward and one aft of the wing. Pax senting was up to 125, eargo volume up to 1,000 cubic feet. fuel capacity and gross weight were also increased. Power was by two JT8D-95, each putting out 14,500 bis. of thrust. The 40 first flew in late 1967 and certified early 1968; first deli-

very was to the Scandinavian, Air System (SAS). Douglas also offers the Series 20, which is based on the Series 10 fuselage, yet retained the higher lift wing and high thrust engines of the -40. You can imagine, then, that the Series 20 hes exceptionally

the 40. You can imagine, then, that the Series 20 hes exceptionally good overall performance, its primary mission being to operate in and out of very short fields and at high altitudes and temperatures. The very latest marketed version of the DC-9 is the Series 50. The fuscing was again structhed another six full feet, retaining the standard high lift wing, and fitted with yet again higher thrust P & W JTB-D-17 turbofans, producing up to 16,000 pounds of thrust. Passenger capacity goes up to 140. At a glance, the -50 looks no longer than the smaller -30's, but a sure way to identify it is by a long aerodynamic strake on each side of the nose. However, Doug-las found that the strakes improve cretain handling qualities so much that it will be offering the strakes as a retrofit to older ias tound that the strakes improve "cream neuraling qualities so much that it will be offering the strakes as a retrofit to older DC-9's. Soon we may see them appear on 40's, 30's and even the 10's. Just to name a few of the arilines that are or will be operating the -50: Allegheny, Hughes Air West, Swissair, Hawaiian Air, LAV of Venezuela, Eastern, and North Central.



NEH News

ural environment is attracting increased attention as man becomes more fully aware of the vital and perishable nature of his surroundings. The National Endowment for the Humani-ties* has a particular interest in the relationship between man et 1 his environment and has

ande three recent awards to study environmental issues. Recipients of these National Endowment for the Humanities awards are universities in Cali-fornia, Florida, and Oregon. A detailed description of ageh detailed description of each grant, arranged alphabetically by state, follows.

ed an Education Pilot grant of \$47,348 to the University of San Francisco for a lecture-project course entitled, "Tech-nologic Culture and the Human Prospect." The course will be administered through the university's Natural Sciences Inter-disciplinary Program, and will unite the humanities with science courses.

Six humanists and six scientists are to teach the course enusus are to teach the course which will explore the envir-onment and human culture in the 20th century. The course of the historical origins of of the historical origins of current life patterns and a re-view of technological prospects for the future.

In FLORIDA: The National Endowment for the Humanities has awarded that will explore the ethical, philosophical and social dimen-sions of environmental issues.



WASHINGTON, D.C .-- The nat-

In CALIFORNIA: The National Endowment for the Humanities has award-

a Higher Education grant of \$43,962 to the New College of the University of South Florida, Sarasota. The grant supports the development of two courses



Catholic Mass 10:30 am

Fr. Marty Keller, O.S.A.

In OREGON:

In OREGON: Ten of the 33 new human-ities courses resulting from a NEH grant at Oregon State University, Corvallis, are direct-ly concerned with humanities and the environment. The Huand the environment. The life manifies Endowment grant of up to \$699,000 was awarded as a part of a comprehensive Ed-ucation Development Program to Oregon State University and includes and Endowment offer to match, on a one-to-one basis, private gifts of up to \$100,000 which may be donated for this project.

Ten of the courses directly Ten of the courses directly related to the environment and its impact on man include: Techn.logy, Environment, and the Quality of Life; Values and Ocean Technology; The History of Conservation in the United States; Literature and the Sea; Maritime History; Development of Maritime Cultures; Marine Anthropology; Man and the Sea in Latin America; Marine and Maritime Studies: and Introducmanufactures statutes; and introduc-tion to Oceanography. Each one of these scientific courses will view the environment from the perspective of the humani-

OTHER ENVIRONMENTAL

GRANTS: These new awards are typi-cal of the kind of grants made by the National Endowment for the Humanities in support of

the Humanities in support of environmental projects. A popular Humanities En-dowment award went to the University of California, San Diego, Extension to support the development of "Oceans: Our Continuing Frontier" as a part of Courses by News-paper which was offered in the fail of 1976 through 324 newspapers and 191 educationthe rai of 1976 through 324 newspapers and 191 deucation-al institutions throughout the country. This program was funded with a Humanities En-dowment grant of \$377,092 in outright Federal funds and \$100,000 in gifts and matching for all. funds.

Another recipient of a Hu-Another recipient of a Hu-manities Endowment grant to encourage environmental stud-ies was Northland College in Ashland, Wisconsin. The college received a \$30,000 Education Pilot Grant to develop four new courses to bring humanis-tic perspectives into its envir-onmental and Indian Studies programs. Two of the new courses are entitled "Ethics and Environmental Matters," and History, Man and His-"Technology, Man and His-

tory." *The National Endowment for the Humanities is an independent agency of the Federal Government. It sponsors both public and scholarly programs which present exhibition, preserve perishable data, and support studies in such fields as: history, language, liter-ature, human geography, and archaeology.

New Telephone System

KENNEDY SPACE CENT-ER. Fla.--NASA's John F. Kennedy Space Center has issued a request for proposals for the stallation and operation of an administrative telephone sys

The automatic dial telephone system will include basic switching equipment, tele-phones, cabinets, switchboards and consoles, interior wire and cable, and any ancillary equipment necessary for proper oper

ation of the system. The existing system with more than 6.150 telephones now in use is owned by the Southern Bell System and was installed in 1963

Competing firms must have substantial direct experience and currently be engaged in the design, development, produc-tion, installation and sustaining services of large-scale telephone systems with 5.000 lines of

The contract contemplated by the request for proposals would be for one year with nine one-year options. The contract year options. The contract would also include an option to purchase the system.

Cessna Introduces The Model 152

WICHITA, KANSAS --Cessna Aircraft Company has introduced a new training air-plane, with deliveries of the 1978 Model 152 scheduled to begin in May. Heading the list of new features eminered the first of new

Model 152 is a 100 octane-burning Lycoming 0-235-L2C engine rated at 110 horsepower. Other all-new features in-

clude

*An exclusive McCauley "gull wing" propeller, with redesigned spinner. *An easily removable and

replaceable one-piece cowi-ing, held in place by quarter-turn, quick-release fasteners, easy access to the en mne.

*A 28-volt electrical system that provides more start-ing power and allows more avionics options

*Redesigned fuel tanks that reduce unusable fuel to only 1.5 gallons. *An oil cooler as standard

equipment. The new lycoming "Blue

engine achieves its 110 horsepower at a low 2550 rpm. As a result, the derated pwerplant reduces external and internal sound levels and puts the Model 152 fin deribalt below the 152 five decibels below the allowable FAA and ICAO maximums that will go into effect in 1980. The 152 takes off in 725

feet, climbs at 715 feet per minute and cruises at 107 knots 123 mph). Maximum range is 350 nautical miles range is 350 nautical miles at 75 percent power. The maximum useful load

of Cessna's new trainer is 589 pounds. With full fuel the 152 has 433 pounds of payload for people, bag-gage and/or accessories. Con-tributing to the impressive useful load is an unusable

fuel quantity of only 1.5 gallor

The lycoming engine de-livers improved specific fuel The tycoming engine de-livers improved specific fuel consumption and allows 2000 hours of operation be-tween overhauls. The high compression ratio power-plant and slower turning prop combine to provide significant fuel efficiency in hight training operations. A dynafocal engine mount has been added to re-duce wibration and engine noise and a new exhaust sys-tem with a single muffler re-duces exhaust sound levels and contributes to engine efficiency. The new muffler efficiency. A new engine cooling sys-

A new engine cooling sys-tem, paired with an oil cooler that is standard equipment, reduces engine operating temperatures in the hottest weather conditions.

The 28-volt electrical sys-The 28-voit electrical sys-tem produces more power for quicker cold starts and the frequent engine starts required in an active training required in an active training environment. A heavy-duty voltage regulator and starter clutch are included in the system. The 152 will also accept 28-volt avionies and such items as bulbs, regu-lators and other parts will now be standard parts will now be standard across the Cessna line. Togine starting character-sities of the new model will also be enhanced by a cylin-der-direct nimer system that

der-direct primer system that will inject fuel directly into three cylinders, assuring even distribution and reliable cold weather starts.

weather starts. The upper cowl on the 152 is a new design, with engine baffling attached to the cowl instead of the en-gine for improved cooling and easier maintenance. and easier maintenance. A one-piece upper cowl

skin attached with quarterskin attached with quarter-turn, quick removal fasten-ers is easily removed to place all engine components and accessories within easy reach.

LThe nacelle nose cap is a Line nacelle nose cap is a one-piece unit designed to accept a single or dual land-ing light installation. Cessna's new, 69-inch fixed pitch propeller teams

Inxed pitch propeller teams with the derated engine to produce more efficient climb and cruise performance at a reduced rpm, resulting in quieter operation. The new prop design also eliminates the need for an attached spacer between the propeller and engine.

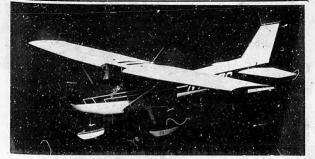
Electrically operated Para-Lift flaps with 3C degree ex-tension on the 152 provide better performance during a balked landing. During go-around, with full 30 degree flap extension, the airplane will climb at 450 feet per minu

In the cabin, a new, re-cessed window latch allows positive locking, tighter scal and increased shoulder room.

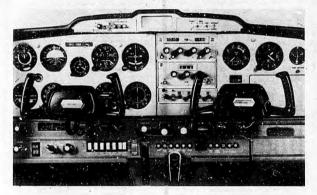
and increased should room. Options on the airplane include a padded headset with attached microphone that can be operated by pressing a button on the control wheel. Rudder pe-dal extensions for shorter

dal extensions for shorter pilots are also optional. A 152 Aerobat will also be available. It meets re-quirements for aerobatic maneuven: of six g's posi-tive and three g's negative load and is certified for barrel rolls, aileron rolls, snap rolls, psins, chandelles, lazy eights, Immelmanns, vertical reversements and Cuhan eights. The Model 152 will replace Cessna's venerable Model 150 in the company's product line, ending a 19-

product line, ending a 19-year production run of al-1. 10 11 mar



SOARING HIGH -- Shown in flight is the new 1978 Cessna Model 152 II.



MODERN CONSOLE - The 1978 Cessna 152 II has a clean, modern cockpit design.

most 24,000 that begain in 1958. More 150's have been sold than all other two-place

"We feel the 152 is the airplane that will replace the world's training fleets with

training airplanes comhined.

modern, up-to-date equip-ment designed and engineer-ed for the training environ-

Bob Lair. "Operators of the 150 told us they wanted a train-ing airplane that would burn 100 octane fuel, while producing lower sound levels in-side and out, better fuel con-suption and more payload,"

ment of the 1980's," said Sessna Senior Vice President

Lair said. "These perfor mance features are all found mance features are all found in the 152." Suggested list prices of the 152 midels, f.a.f. (fiy away factory), Wichita, Kan-sas are: Model 152, \$14,500; Model 152, 11 & 21,200

PAGE 7

Model 152 iI, \$17,995; Model 152 with Nav Pac, \$ 20, 635; and Model 152 Aerobat, \$19,500.

Summer Tourneys Offer College Students Chance To Earn Prize Money & ATP Points

NEW YORK, N.Y., May 3, 1977- American Express is searching for talented young amateur and professional tennis players to participate in this summer's Challengers Circuitsummer's Challengers Circuit-a total of 14 tournaments, featuring more than \$200,000 in prize money, ATP points and entry into the U.S. Open at Forest Hills.

Players who wish to com-pete in this U.S. Tennis Association supported event should apply now.

The circuit is divided into Eastern and Western Divisions with seven weekly tournaments in each division running con-currently during July and Aug-ust. Each week-long tourna-ment will be held at fine resorts and tennis clubs through-

out the United States. Prize money per tourna-ment has been increased from \$10,000 to \$15,000 this year, allowing the sponsors to offer a wider spread of prize money among all competitors, while still boosting first prize for single to \$2,400 per tourna-ment, and \$900 for doubles. out the United States

Playes interested in enter-ing either the Eastern or the Western Division competitions must pay a §25 entry fee per tournament. For addition in-formation about the Chalen-gers Circuit, official application forms, tournament locations, qualifications, conditions and mathématications, conditions and regulations, write to the follow ing tournament directors:

Eastern Division: William Mott 13 Ann Street Holden, MA 01520

Western Division

Darrel "Righty" Eden 200 First Avenue East Seattle, WA 98119

further information. for please contact:

Sharon Watson American Express Company American Express Plaza New York, N.Y. 10004 212-480-2442

Spaceport Hyperbaric Chamber Arriving At The University Of Florida

KENNEDY SPACE CENT-ER, Fla.-The Kennedy Space Center's hyperbaric chamber has been loaned to the College

has been loaned to the College of Medicine at the University of Florida in Gainesville for by-perbaric medicine and research. Located in the Operations and Checkout Building in the KSC Industrial Area, the hyper-baric chamber was designed for treatment of astronauts if decompression sickness - "the bends" - should occur during their participation in manned altitude charber tests of the

Apollo spacecraft. With completion of the Apollo Soyuz Test Project - a manned space mission with the

Soviet Union - in the summer of 1975, there was no opera-tional requirement for the alti-tude and hyperbaric chambers and all chambers were deactivated. The hyperbaric chamber was

available to the public for treat-ment of decompression sickness from February, 1961, through August 15, 1975, and a total of 13 patients - all of them SCU3A divers - were treated at the Center during that period. The loan agreement extends through December 31, 1979, unless extended by mutual agreement of KSC and the Uni-versity of Florida. available to the public for treat-

versity of Florida. The original cost of the mo-

bile hyperbaric unit was in ex-ces of \$80,000 and the Univer-sity of Florida is responsible for the costs of maintaining the chamber and training its opera-tion personnel as well as trans-portation of the unit to and from Gainesville. In medical terms, a hyper-baric chamber is defined as "a

specially equipped pressure ves-sel used in medicine and physiological research to administer oxygen at elevated pressures." Since their deactivation, the

altitude syd hyperbaic cham-bers have been preserved so that they may be reactivated if re-quired for Space Shuttle activi-ties.



PAGE 8

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

WEDNESDAY, MAY 18, 1977



FOR SALE-AUTO

FOR SALE: 1972 Chevy Nova. \$850 Excellent condition. Contact Larry at ERAU Box No. 1007.

FOR SALE: Almost new Goodysar tires with 14 inch Shelby Whrels, to fit Chayler or similar models; \$145.00. Contact Bud at 252-2052.

1969 Ford Galaxy 500. Red with white interior; excellent condition. Contact Art Kelley: 767-4701.

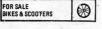
4 DAYTONA MAG WHEELS (like new) and 2 B60-13 Wide (belied) Tires. Fits Volkswagon Beetle and other similar cars. Contact Howard at 258-0190 or Box 3237

1971 Buick Sportswagon, air, P/S, P/B, excellent condition. \$1100 255-6733.

1970 MGB Convertible- Wire wheels, new Dunlop steel belied radials. Exceptionally nice. Contact Mr. Vosbury at AMT Jet Lab or call 767-7305

1968 FCNTIAC FIREBIRD - 4-Speed, 400 cu. ko. englue, 806 cfm Holley, Applinace Mag Wheels, Steel belied radials, Appliance Honders, Tape Player - 8-track Clereo, Custorn interior - \$1200.00. If interestied cui 255-6387 and ask for Rob.

ATTENTION UW OWNERS: Your bug sich? Did your Rabbit die? Factory trained VW Mechanic, fuel injector specialist - way reasonable rates. Mark, Rox 5385 or call 255-7055 siter 1400 hour: 1 set TRW Hi-Performance Pistons for closed chamber engine. 12-5 to 1 compresion ratio, New Corolition. Box 1385 or 255-7053, Akt for Tob.



POR SALE: 1973 KAWASAK: 350 6 speed; Disc brakes. Wind shield and Luggage Back. Excellent condition, \$450 Contact Jm Thomson-Box 4202 co Phone 252-6335 after 6 p.m.

Paugeot 10 speed, lights, leallact \$95 or trade. 2 sheep skin car sent covers \$20. Box 2092, 255-9686

1977 Yamaha XS-750. Snaft drive, mag wheels, luggage rack, and backrett. Three helmets included. Coutact Mr. Vosbury at AMT Jet Lab or phone 767-7305

For Sale: JAWA Moped. 7 months old \$300 call 258-1707

1974 Honda XL-350 2500 miles, good condition. An excellent light weight dirf machine. Extra knobbles and yarts included. \$700 contact: Paul R. Miller Box 5401

FOR SALE: '72 Kaw 500 cc - \$350 firm. If Interested contact Box 2587 or call 761-6762.

ANTEO-MISC

ROOM-MATE WANTED: Ridgecrest Apartmanns- 2: miles from EPAU, Furniahed Apt. & your own furnished room. \$70.00/month plus 1/3 of utilities. "Muss Stay until End of August. Call 255-8213 stree 6:00 p.m. FOR SALE-MISC

FOR SALE: Magnavox Di_ital Clock Radio AM/FM-AFC, wake to alarna wake to must, condition is like NEW, Or iginally \$60, will accept \$25 or best offer Call Bill at 252-7963.

N

FOR SALE: Play pen-\$10. Baby Walker-\$4. BOTH in Excellant condition. Contact Glanda at Ext. 423 or call her at home/at 253-4530

Hang Glider, Bill Bennet design. \$375 Contact Box 5154

SCUBA TANKS, Dacor 71.2 cu. ft, steel tank w/K vatve - \$40,00; US Divers, 71.2 cu. ft. iteel tank w/J valve - \$45,00; Telephoto Lens, 300 mm Pentax mount, f S.S. Automatic - \$35,00, Contact Greg at box 2045.

ioneer (2020) AM/FM stereo car radio nd 2 AFS speakers: \$100, Call 252-9113, ak for Kevin or leave note in ERAU Box

For Sale: Garnard 2260 turntable- \$25 and Mayiag spartment size washing machine, good condition, \$75. Box 1296

For Stereo System and Yamana Guitar rlease call 255-0825 or control through Box 1204.

Sofa and matching chair. Good cond \$65, 255-6733 or Box 5492

PIANO FOR SALE: Steinway Console. Louis 15th, Beautiful condition, \$2,500 worth over \$4,000. Call 677-1560. FOR SALE: Fold out Tent/Trailor Camper. 1974 model, good cond'tion. EXTRAS. Call Sam Stack on campus X 301. Off campus-Deland 904-734-



HOUSE FOR RENT - Located in Holly Hill area. \$50 monthly pin 4 utilise. Need three NEAT people, to share rent. Context Don McEdide Box 5321.

70R RENT: 2 bedroom houss, large family room and living room. \$225 per month includes utilities (except gas). \$100 deposit required plus 30 day advance notic. North Holly Hill area. 672-6584.

House for remi. To responsible students only. For the summer months (May thru August) 2-bedrooms, 1-bath, fully furnished (including king-sixed waterbed) \$175/month plus utilities. Fenced yard, back porch, double garage. In Holly Hill, 12 minutes from school, Call Howard, 258-0190 or Box 3237



SECRETARY WANTED - For Student Government Association. Stop by the SGA office, or see Irsne, secretary in Student Activities.

