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Embry-Riddle Aeronautical University

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CIVIAN

An Award-Winning Collegiate Newspaper

Volume 54, Issue 10

Embry-Riddle Aeronautical University, Daytona Beach, Florida

November 12, 1986

Embry-Riddle wins Flight Team sweeps Regional Competition

By Steve Cagle
Avion Staff Reporter

The National Intercollegiate Flying Association (NIFA) Safety Convention (SAFECON) held at the Daytona Beach Regional Airport last week saw the competition dominated by the Embry-Riddle Precision Flight Team. The regional competition between Gulf Tech, Florida Institute of Technology, Middle Tennessee State University, Broward Community College, Miami Dade North, Auburn, and Embry-Riddle was held Thursday, Friday, and Saturday.

Embry-Riddle won all major awards in the competition by a decisive margin. Flight Team President Buck Wyndham expressed immense satisfaction at the performance of the team. The results were announced at the award banquet held at Pelican Bay Saturday evening. When the results were given out, Wyndham said, "You could have heard a pin drop over the entire field."

Embry-Riddle won the overall ground and flying events as well as the award for Top Team. Another prestigious award captured by Riddle was the Safety Award. This award is given to the school which has the best documented safety program. The team's safety officer, Dan Ferraciolo, presented the safety notebook to Bill Strauss, an FAA official from Orlando who noted on the score sheet, "(An) exceptional program and (it) should be used as a Master Guide."

In addition to the team awards, Buck Wyndham and David Dodson finished first and second, respectively, in the Top Pilot competition. This award is given to the best overall pilot at the Flight Meet. Wyndham's placing qualifies him to try out for the United States Precision Flight Team which will travel to Poland next year for international competition.

In the individual events, Embry-Riddle relied upon solid placings by team members in order to win the overall events. According to Head Coach Mike Wiggins, the team did a great job. He added, "Everyone on campus has every right to be proud of how our team did."

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In the individual events, Embry-Riddle relied upon solid placings by team members in order to win the overall events. According to Head Coach Mike Wiggins, "It was a team effort." He added, "Everybody on campus has every right to be proud of how our team did."

In the power-on landing competition, Riddle was hampered by the landing performance of the Cessna 172 which tends to float before touching down. Many other schools use the C-152 which is easier to place precisely on landing. Even with the handicap, Doug Trent placed seventh out of thirty competitors.

According to Wiggins, the team's emphasis placed on the power-on landing, which Riddle would be able to do better with its C-172's. First place in the power-on landing event was captured by Buck Wyndham with Dave Dodson finishing third.

Three Riddle students placed in the top ten in the message drop event. Dropmasters Patricia Leon, Dan Ferraciolo, and Phillip Smits finished tenth, fourth, and second respectively. Buck Wyndham placed fourth and Dave Dodson finished second in the VFR navigation event.

The Simulated Comprehensive Air Navigation (SCAN) event saw Dave Dodson finishing sixth and John Walsh in third. The results of the aircraft recognition were: Buck Wyndham - ninth, John Walsh - third, John Wasong - second, and Steve Haddad - first.

The simulator event was won by Buck Wyndham with a score of 33 (low score wins). His closest competitor had a score of over 100. John Walsh was second. The preflight event had Embry-Riddle students John Walsh and Dave Dodson finishing first and second.

"An impromptu accuracy landing event for flight instructors, Riddle instructor John Stratchuk captured top honors."

Aeronautical Science Chairman Tom Connolly said that the key to this victory was the sacrifice and dedication on the part of the students involved with the Flight Team. He added, "I can't give enough credit to the staff," who worked to make not only the Flight Team a success but the Regional Meet a success as well.

See MEET, page 8

SGA goes to the movies

By J. Miguel Vidal
Avion Staff Reporter

Two weeks ago, the Student Government Association (SGA)



This Week

- Varieties of boosters take payloads into space
- Modified F-16 investigates unique concepts

page 4

page 7

University still tuition dependent Most of revenue goes towards instruction costs

By John Gelsay

In a recent study, consultants hired by Embry-Riddle determined that the university spends more of its revenue on instruction than 12 comparable colleges and universities. It also showed ERAU continues to be tuition dependent and that until new sources of revenue are developed, tuition increases will be necessary if the university is to expand.

Every year, the Embry-Riddle Administration contracts Dr. John Minter and Associates to conduct a "financial ratio analysis" and to compare the university to twelve other private colleges. Based on private con-

trol, size of budget and the number of full-time equivalent students, Dr. Minter selected 12 private colleges as ERAU's peer group.

According to the data, in Fiscal Year 1986, Embry-Riddle spent

more of its revenue on instruction than the median of the peer group — ERAU spent 46.5 percent while the median spent 42.3 percent.

The study also showed that ERAU spends more of its revenue on student services, institutional support and reserve accumulations.

The peer group spends more revenue on research, public service, academic support, plant maintenance, scholarships and debt retirement.

Addition conclusions of the study indicate that, for the present, Embry-Riddle continues to depend highly upon tuition and fees.

This revenue source is fully

variable, meaning that the amount of revenue changes proportionately with increases or decreases in enrollment.

Many private institutions are highly tuition dependent and therefore more susceptible to severe financial crisis should their enrollments decline precipitously.

ERAU has had stable enrollment growth during the past few years while many private universities have a declining enrollment.

To solve the problems associated with rising costs, the university is implementing a

variety of cost-saving programs, budget cuts and stepping up its efforts in fund raising to create a more diversified annual unrestricted gifts for current operations and endowment income programs such as the new annual fund and the development of foundations and corporate support which make the university less dependent on tuition.

Dr. Minter was one of the early

pioneers in developing ratio analysis and worked with Dr. Howard Bowen and the accounting firm of Feat, Marwick and Mitchell who established the standards in higher education financial management.

Advisement becomes mandatory for all Embry-Riddle students

By Ron McCann
Avion Staff Reporter

Last week, all Embry-Riddle students received a letter from R. Luther Reisbig, Vice Chancellor of Academic Affairs.

Reisbig informed the students

an instructor in the student's degree program — such as an Air Science student with an adviser from Humanities — the adviser has been made aware of the student's degree program requirements.

Freshman and sophomores have been assigned advisers from

"Everyon on campus has every right to be proud of how our school was represented."

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See MEET, page 8

SGA goes to the movies

By J. Miguel Vidal
Avion Staff Reporter

Two weeks ago, the Student Government Association (SGA) began a video-rental service which offers students, faculty and staff VCR and video rentals at a low price.

According to Chris Seckinger, SGA Representative in charge of the project, the Student Government has a contracted with Showtime Video to provide videotapes until the of Dec. 1986. The rental cost of the videotapes, two dollars each, will be split between Showtime and the SGA. Seckinger also said that depending on the success of the program, the contract will be renewed — either with Showtime or other local companies.

See MOVIES, page 8



Bottoms up....

Last Friday saw the traffic circle roped-off and the creation of the perfect place for skateboarders to play. The wide open area

allowed these "land surfers" to take up jumping over obstacles — such as pick-up trucks — and showing off for the camera.

Avion photo by Tim Haas

David Dodson kicks up chalk dust by landing right on the 'power-on' precision landing target during the National Inter-

event began Thursday when Region IX teams such as F.I.T. and Auburn University arrived in Daytona.

University still tuition dependent

Most of revenue goes towards instruction costs

By John Gately

In a recent study, consultants hired by Embry-Riddle determined that the university spends more of its revenue on instruction than 12 comparable colleges and universities. It also showed ERAU continues to be tuition dependent and that until new sources of revenue are developed, tuition increases will be necessary if the university is to expand.

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Addition conclusions of the analysis are that, for the present, Embry-Riddle continues to be dependence on tuition and fees. This revenue source is fully variable, meaning that the amount of revenue changes proportionately with increases or decreases in enrollment.

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To solve the problems associated with rising costs, the university is implementing a

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Advisement becomes mandatory for all Embry-Riddle students

By Ron McCann
Avion Staff Reporter

Last week, all Embry-Riddle students received a letter from R. Luther Reisbig, Vice Chancellor of Academic Affairs. The letter said that it now mandatory for all to be advised prior to advanced registration. According to Dean Reisbig, this Mandatory Advisement is not a new — there was mandatory advisement in the past but was not adhered to and became obsolete.

Mandatory advisement for all students was brought back to lower the matriculation rate of students leaving ERAU before graduating. It is intended that advisers not only insure the students take the correct course in the correct order, but also keep current with industry needs.

Faculty members have been assigned approximately twenty to forty students to advise. Although the adviser may not be

an instructor in the student's degree program — such as an Air Science student with an adviser from Humanities — the adviser has been made aware of the student's degree program requirements.

Freshman and sophomores have been assigned advisers from the Mathematics and Humanities Departments while juniors and seniors have advisers from their degree program. The system was set up in this way to insure that students closest degree completion meet all degree requirements.

It is the hope of Dean Reisbig that this will alleviate students scrambling at the last minute to complete required that have been put off until their senior year.

During registration advisers will be on hand to sign off students who must rearrange their schedule due to course sections being filled and new schedules having to be worked out.

Editorial

Auto registration — a must on campus

Each trimester, new meanings are applied to the term "advanced registration." For a few fortunate students, this period is one of hopeful anticipation as they speed through the process on their way to fulfilling the educational path they have chosen. For many others, however, it is one of anxiety and apprehension as they wade through the seemingly endless rivers of administrative "red tape" on their way to course selection.

Past efforts to alleviate much of the bureaucracy have proven futile, leaving a deep-rooted sense of animosity between the student and the university. In an apparent attempt to streamline the process, however, the University has decided that the administration has imposed a mandatory advanced placement for every student enrolled at Embry-Riddle. The dictation of this requirement is said to be in the best interest of the student. This is questionable.

Under the soon-to-be-enforced regulation, no student may register for classes without obtaining an advanced placement from the administration or the contractor the former, which only mandated freshmen students, those with less than 24 ERAU credit hours completed, Engineering or AMT students to seek curriculum assistance. Additionally, students with poor academic standing were referred to advisers for help. Once familiarized with the university's method of registration, students then could exercise the option of seeking guidance or not. This option no longer exists.

Administration officials may feel that a mandatory advanced placement will quickly eliminate many scheduling conflicts and provide more consistent class enrollment in the future. Perhaps this may be the case, but at what expense?

Logistically, the forced advanced placement appears to be off to a start. According to a growing number of students, they have received no notice other than the one from Dean Reisbig advising them as to whom they should report to for curriculum guidance. Also, students in a one program often receives "advisement" from instructors in other programs who do not seem to know about the student's own program.

ERAU has a well-trained, professional faculty whose purpose is education, not administration. Many individuals involved in the university now divide their time between instructing the students and acting as academic counselors. By their own admission, not all faculty advisors feel that they can adequately assist the students with the professionalism they deserve.

Perhaps the most important point, however, is the administration's apparent mistrust in a "responsible" Embry-Riddle student. A university which breeds of professional graduates now proposes to hand-walk and spoon-feed its toddlers throughout their college career. Are ERAU students so irresponsible that they cannot manage their own scheduling structures? It appears that the administration subscribes to this philosophy.

Rather than instigating such an overbearing policy upon faculty and students, perhaps school officials should concentrate its efforts on reworking the yearly catalog to better outline academic requirements — a recommended semester breakdown for each degree program with supplemental information on prerequisites and guidelines are helpful to students. Also, individuals would prosper from increased academic coordination and guidance during their first year at Embry-Riddle.

While the administration may believe that this is the best

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administration officials may feel that a mandatory advanced placement will quickly eliminate many scheduling conflicts and provide more consistent class enrollment in the future. Perhaps this may be the case, but at what expense?

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ERAU has a well-trained, professional faculty whose purpose is ultimately to teach. Under the newly instigated policy, they must now serve as both teacher and advisor to the students — acting as academic counselors. By their own admission, not all faculty advisors feel that they can adequately assist the students with the professionalism they deserve.

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With the administration may believe it has the overall best interests of the students at heart, it does not. A majority of those attending ERAU are adults, and most even act as such; school officials must realize this. Iron-fisted policies such as this may provide short-term relief, but offer they are only a temporary solution to a very real problem.

Klyde Morris



Wes Oleszewski



Cartoon by Wes Oleszewski

Letters to the Editor

Bad Idea

To the Editor:

Sir, I am writing in response to the Student Forum question "Would you be interested in having faculty evaluations published?"

I don't think that the faculty evaluations should be published, mainly because it would create a lot of problems. If there is a teacher with a poor evaluation, nobody will be willing to take a class that is taught by him. Also, if somebody will "get stuck" with such a teacher, there will be for sure a bad atmosphere and comments like "no wonder everybody hates him."

On the other hand, if you "get lucky" and are in the easy teacher's class, thinking that there will be no problems, with the class you might be really disappointed.

Another thing is that the evaluations are very subjective sometimes. For example, believe it or not, teachers sometimes evaluate their students based on how much work the more you work, the more you get out of it, even though students, including myself, might not like it.

Finally, I feel that if those people had a little more time to think about the question, they would

realize that it wouldn't do any good to know the Faculty Evaluations especially that they wouldn't probably want everybody to know their test results and all of the grades.

Jerry Sallai

Box 1031

Division by Zero

To the Editor:

Whenever the question of why our campus has been cut into with no connecting road between the "Academic side" and the "Flight side," the Administration laughs and makes a comment about how much easier it is to walk around campus. There are, however, some situations which will occur, where the connecting road will be sorely missed — emergencies requiring Embry-Riddle Security or Physical Plant. When an emergency occurs on campus, how much longer will it take for help to arrive?

Embry-Riddle Security needs easy access to all parts of campus, especially when accidents occur. When an emergency occurs on campus, how much longer will it take for help to arrive?

Embry-Riddle Security needs easy access to all parts of campus, especially when accidents occur. The Physical Plant personnel would be needed if a pipe should burst, or if crucial equipment should fail. By the time Security or the Physical Plant could arrive at the Flight area or the dormi-

mories, expensive equipment could be ruined, and yes, lives could be lost.

You ask us for security to jump curbs? How many times do you jump curbs? Ford Ranger or a Cushman could do that? No, in order to reach the flight area and the dormitories, ERAU vehicles must use Clyde Morris Boulevard and Catalina Avenue. Our vehicles have no sirens, or emergency flashing lights, and they have no right to break speed limits or to interfere with traffic on those roads. Even when our security and physical plant vehicles follow the roads that exist on campus, they too will be sliced by those mega-speed bumps.

It's time for the Administration to stop laughing about having a campus split in two. So much has been said about how cutting down traffic on campus will make the campus so much safer. Maybe that depends on which side of campus you are located.

William Dickinson

Box 2131

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Box 2131

Out of Order

To the Editor:

As we all know the time for advance registration is drawing

near. Due to the over-abundance of students that were allowed to enter the Fall 1986 term, many of us felt the crunch by being forced to rewrite our schedules several times, each time being forced by an advisor. Well, because of our great desire to become aviators at what was considered the best school of its kind, we put up with the run-around hoping that by the next trimester things would get better.

They didn't. In fact, they only got worse! Maybe I am only a Freshman and do not understand the system, but I think it stinks!

Advanced registration is supposed to be based on the number of credits you have taken.

When I entered this school in the fall, I had twelve credit hours due to the CLEP Tests. I understood that Freshman registration was based on Alphabetical order by last names. Now that is time for Spring trimester registration, I believe that because I have more credits than many other freshmen I should be allowed my privilege — especially since at the end of this trimester I will be considered a sophomore!

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Unfortunately no one in the Office of Registration and Records can count! They seem to

See LETTER, page 3

CYON

Funded by the Students of Embry-Riddle

1986 The Avion Newspaper

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This week's staff: Pat Belton, Tim Heas, Jim Banks, Jerry Silver, and J. Miguel Vidal.

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Klyde Morris

HERE'S DEAN REISBIG ENTERING THE E.R.A.U. CAMPUS... BUT WAIT! IT'S A SPEED-BUMP IN HIS PATH.



THIS IS ROD LUCK, LIVE HERE AT E.R.A.U.'S FIRST ANNUAL OFF-ROAD ENDURANCE RALLY...



THERE'S THE GREEN FLAG! THEY'RE OFF... WHOA... WAIT! IT APPEARS A WRECK HAS TAKEN PLACE HERE AT THE START OF THE REISBIG ROAD RALLY!



Wes Oleszewski

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The Avion Editorial Board members are: Mark Stern-Montagny, Bill Fisher, Allen Berg, Richard Calvert, Brian Nicklas, John Getsy, Pete Merlin, and Rich Clarko.

The Avion is an Associated Press member newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisors, and the Associated Collegiate Press.

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Correspondence may be addressed to: The Avion, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32014. Phone: (304) 252-5561 Ext. 1062.

Student Forum

The Avon asks:

Would you be in favor of an on-campus "coffee shop/pub"?



Art Theodoses - "If it was not in the U.C. and did not have an Epicure type of atmosphere, I'm in favor of it."

Linda Yager - "Yes, I think it's a great idea, we need a place to go."

Scott Marshall - "I think we should have some sort of pub or coffee shop, the Flight Deck is too crowded."



E.J. McDonald - "Yes, it would give people a place to socialize instead of going into the library."

Carlos Cifuentes - "Yes, it would give the students a place to get together."

Lois Money - "We don't have a place on campus to go to socialize, I think having a coffee shop is a good idea."

BLOOM COUNTY



LETTER

(continued from page 2)

I think I am only technically a Freshman, and that I should

drop out.

You know that many of you

that they are allowing more students to enroll than there is

C/Sgt. Toby Whetzel

pub Ministry to be distributed to...milk arc

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LETTER

(continued from page 2)
I think I am only technically a Freshman to this moment. I hope that my registered will become apparent before the time I graduate or get fed up enough and go home for good. One woman even tried to tell me that advanced registration was dependent upon me getting married.

I have the canceled checks to prove that I paid both the \$100 acceptance fee and my tuition in full before my roommate did and he still gets to register before me. Many of you may be asking yourself, I wonder if she is being so much. Well, I must work two jobs to put myself through college. These jobs are dependent upon having blocks of time available and if I am forced to spread my classes out, I may very well have to give up my jobs and

drop out.

Yes, I know that many of you have jobs and the same needs as I do, and I sympathize with you. If you are entitled to advance registration you should do it. Riddle was wrong why their registration rate was only half — 66.91 percent of first time students — for first time students from Fall 1985 Trimester to Fall 1986. Well, I'll tell you the answer, there were more than twice as many students than there were of this university over three being, um, more or less.

I work in a very exclusive office and have access to some pretty impressive numbers. Riddle had more funds available to them in the fall of 1985 than in the previous year. So, tell me why is there a limited number of sections open each tri and a limited number of slots in each? It's not the limited number of sections, but rather, the officers of this university are so money hungry

that they are allowing more students to enroll than there is room for just to make money. The instructors are then forced to have overloaded sections and work for more wages.

I urge Riddle to get a good education and I am sure

that there is a lot of red tape and run around at other schools, but I feel that my education is being hurt by the overabundance of students or rather the lack of services and facilities provided by ERAU.

I urge the officers of this university to spend a little less money on all the campus decorations and funnel your efforts to areas where they would be needed like more staffing facilities for study groups and more classes with less students so there is no need for advanced registration.

Name withheld upon request

AFROTC, Arnold Air Society sponsor food drive to assist Daytona's needy

C/Sgt. Toby Whetzel

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milk are very much in demand.

We, the students of ERAU, are very fortunate to have a wholesome meal provided at no cost to us. We would like to spread this good fortune with a simple donation of a few cans of food. Remember, even the smallest of donations quickly grow into an abundant supply of food.

New computers for library use

Hendry Belts
Avion Staff Reporter

The Jack R. Hunt Memorial Library is installing a computerized system for library services. Located in a specially constructed computer room near the circulation desk, the system —

two 300 mega-byte drives, a magnetic tape storage unit, a keyboard, terminal, light pens, and related software — costs approximately \$140,000 which includes the cost of terminal stations and work areas.

Kathleen Cirro, Reference Services Manager, said the costs

have been absorbed because The Edith B. and Charitable Foundation gave a matching grant to cover the expenses.

When the system is online, the circulation module will allow the quicker check-out of materials as

See LIBRARY, page 8



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Orbital Inclinations



'Intro to Space' offered in Spring

James Banks:
Avion Staff Reporter

Next spring the Air Science department will offer "Introduction to Space." (AS 195A 01 MW 1330-1450) I encourage all of you who have even a little interest in space to take this course and be introduced to our nation's space program.

The course description says that this course will be a survey of the major aspects of space flight including the history of the space program, space shuttle operations, and current and future scientific, commercial and military uses of space.

In 50 years or so this university will not be an aeronautical school, it will be only known for its aerospace activities. Perhaps we'll even have a residence center in Earth orbit. When your grandchildren are attending such a place, you will be able to tell them that you remember when the Embry-Riddle administration took that first bold step into the world of higher-space education.

The enthusiasm for this course should be tempered with remembering the fact that there was once a space mechanics course for engineers. There is still a need for this course, and someone in that department should take the hint from Air Science and get that course restarted.

In fact, the management department could stand to investigate the economics of space travel, or perhaps AMT could learn how to make a malfunctioning satellite worth several million dollars again. Once these elective courses are offered, it would only be a matter of time before each program would have an area of concentration in space, and then, eventually, full-four-year degree programs in Space Engineering or Space Management.

This will be the future — and students of the intro to space class, along with instructor Reeder, will be leading the way.

Atlas-Centaur 66 ready for launch

Booster maker has plans for future commercial launch endeavors

By Jim Banks
Avion Staff Reporter

Atlas-Centaur is scheduled for launch this month. The booster will carry a Navy FLTS-TCOM payload into orbit. If the weather cooperates the rocket should put on a spectacular display for students watching from the Daytona Beach area.

A recent countdown test was performed in which the Atlas-Centaur was loaded with its liquid propellants and the procedure short of an actual launch were rehearsed. The test went with out a hitch, clearing the way for next week's launch according to NASA spokesman George Diller.

The launch has been delayed several times since its originally planned launch date of last May which was scrubbed following the failure of a Delta booster minutes after liftoff in early May. The main engines of the Atlas and Delta are similar, causing NASA to postpone the Atlas launch until the Delta failure was completely understood.



An Atlas-E launches from Vandenberg Air Force Base.

Next week's mission will be the first for this type of vehicle since the shuttle accident last January. An Atlas-E booster was successfully launched from Vandenberg Air Force Base, Calif., September 17, and carried a NOAA-G weather satellite.

The last launch of this type booster was Atlas-Centaur 65 which successfully placed an INTELSAT communications satellite into orbit in September, 1985.

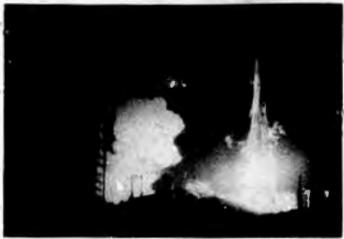
General Dynamics, makers of the Atlas-Centaur, are planning for future versions of this booster and would like to see a successful launch.

Since President Reagan announced that commercial payloads would no longer fly on the shuttle, several companies have been encouraged to take up the slack in the commercial satellite market.

L.R. Scherer reported at last April's Space Congress in Cocoa Beach that General Dynamics is planning several new concepts of basic solid rocket designs in order to meet a potential need for satellite launchers. The concepts for the new boosters were presented in a report which analyzed expendable launch vehicles as a complement to the Space Shuttle in light of the January tragedy.

Scherer, a General Dynamics Space Systems Division executive, would not commit in April to saying his company would market its own vehicles. He did say, when asked if the government lifts its heavily-subsidized pricing policies for the shuttle, General Dynamics would do "what any prudent businessman would do."

General Dynamics plans call for new boosters capable of placing up to 20,000 pounds of payload into geosynchronous orbit.



Atlas-Centaur 65 launches from the Cape, Sept. 26, 1985, with an INTELSAT VA-F12 payload on board. This was the most recent Atlas-Centaur to have been launched.

SOURCE: General Dynamics		OPERATIONAL OR UNDER DEVELOPMENT		DESIGN STUDIED	
Launch Vehicle	Performance (lb)	Launch Vehicle	Performance (lb)	Launch Vehicle	Performance (lb)
A-Atlas E	3,200	N/A	N/A	Operational	Operational
B-Atlas H	4,400	N/A	N/A	Operational	Operational
C-Atlas Q/Centaur	13,500	5,200	40,000	Operational	In Development
D-Atlas 4B7/Centaur					
E-Atlas K	9,500	3,500		Study Completed	
F-Atlas/Centaur Super G	14,500	6,000		Study Completed	

to space class, along with instructor Reeder, will be leading the way.

An Atlas-E launches from Vandenberg Air Force Base.

ing up to 20,000 pounds of payload into geosynchronous orbit.

E-Atlas K	9,500	3,500	Study Completed
F-Atlas/Centaur Super G	14,500	6,000	Study Completed

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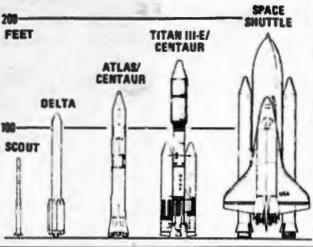


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A family picture...

NASA's current stable of launch vehicles are shown in this drawing: (From left) SCOUT — Used for very small payloads; DELTA — Used for payloads around 2,500 pounds; ATLAS-CENTAUR — Used for payloads around 5,000 pounds; TITAN 34-D7 — Soon to be Titan 4, a heavy lift vehicle; SPACE SHUTTLE — Manned vehicle for low orbit operations requiring manned presence.

Source: NASA



Arianespace offers alternative to expendable launch vehicles

By Jim Banke
Avion Staff Reporter

A major competitor in the launch services industry, Arianespace was organized in 1986 as a privately owned and operated company in Europe. Its purpose is to market satellite launch services world wide, providing launch vehicles, and direct launch operations of the Ariane booster.

Arianespace came about after the European Space Agency developed the Ariane booster. It was determined that a private company should be formed to interest European manufacturers, banks, and governments. The private company is based in France, has offices in Washington, D.C., and Tokyo, and launches from its own launch complex in Kourou, French Guiana.

A truly world wide interest, Ariane boosters have flown 18 times placing 22 satellites into orbit. There are 5 types of Ariane boosters that have either flown or are in development.

Ariane 1 first flew in



The first Ariane 1 lifts off from its launch complex in French Guiana, Dec. 12, 1979.

December, 1979. Ariane 1 is a three stage vehicle using storable liquid propellants in the first two stages, and cryogenic propellants (liquid oxygen and hydrogen) in

the third stage. The Ariane 1 boost about 45 meters high, and could place 4000 pounds into geostationary transfer orbit.

Arianespace's first version of the Ariane has been retired following the launch of two satellites in February of this year.

The Ariane 2 and 3 boosters are identical except that the Ariane 3 adds two strap on solid rocket boosters to the first stage. The main body of the booster is derived from the Ariane 1, with stretched tanks and increased performance capabilities. The Ariane 2 can put 4800 pounds into geostationary transfer orbit, and the Ariane 3 can lift 5730 pounds into the same orbit.

All Ariane launches to date have been of the first three varieties of 18 flights, three of which have failed. One of these failure involved the third stage which is now undergoing extensive modifications. The next mission for Arianespace is scheduled for February, 1987, which will be an Ariane 3 booster.

See ARIANE, page 14

NASA's workhorse: Delta

McDonnell Douglas booster has impressive history

Delta is called the workhorse of the space program. This vehicle has successfully transported over 180 scientific, weather, communications and applications satellites into orbit.

These include the TIROS, Nimbus and IOTOS weather observers; the Landsat Earth resources technology satellites; the early Intelsat international communications satellites; and many explorer scientific spacecraft.

The latest success of the Delta was the September 1 launch of a Strategic Defense Initiative payload. The next Delta launch is scheduled for February of next year.

First launched in May, 1960, with an Echo communications satellite on board, the Delta has been continuously upgraded over the years. Today it stands 116 feet tall. The first stage is augmented by nine Castor IV solid-propellant motors, six of which ignite at liftoff and three after the first six burn for 58 seconds into the flight.

The average first stage thrust with the main engine and six solid-propellant motors burning is 718,000 pounds. Delta has liquid fueled first and second stages and a solid-propellant third stage. For most launches today, this third stage has been replaced by a payload Assist Module (PAM) stage attached to the spacers.

The first stage of the Delta, built by McDonnell Douglas, is 74 feet in length and eight feet in diameter. The main engine built by Rocketdyne, burns with a highly refined kerosene, and liquid oxygen. It produces 220,000 pounds of thrust and burns for about 22 seconds.

The second stage, also built by McDonnell Douglas, is approximately 21 feet long and 55 inches in diameter. The main structure consists of two propellant tanks, one containing Aerozine 30 fuel, and the other nitrogen tetroxide oxidizer. These tanks are separated by a single metal bulkhead. The second stage uses a TR-201 main engine built by TRW, which produces 9,800 pounds of



Delta 179 is assembled on Pad 17A at the Cape. After the main stage is stacked, nine Castor IV solid rocket boosters are added in three sets of three.

thrust and can burn for over 300 seconds. The engine can be shutdown in space which allows more varied mission operations.

The third stage PAM is also used on Space Shuttle launches. It boosts spacecraft from low earth orbit to higher orbits such as geostationary.

KSC Complex 39 continues active with wind tests

By Jim Banke
Avion Staff Reporter

At Pad B, where orbiter Atlantis sits, work is progressing to install wind instruments in the flame trench and mobile launch platform. These sensors will be used to prove the belief that no problem ex-

ists at Vandenberg, Calif.

Engineers at the Cape believe that winds blowing through the flame trench is sufficient enough to disperse any residual hydrogen following an engine shutdown. The Vandenberg facility uses flame

towers where the potential for this problem is greater.

ists with hydrogen entrainment in areas beneath the shuttle's main engines.

Hydrogen entrainment occurs when the engines are shut down immediately after ignition and residual hydrogen gas is trapped in areas beneath the orbiter with a potential to explode. Such a problem is believed to exist at the shuttle

times placing 42 satellites into orbit. There are 5 types of Ariane boosters that have either flown or are in development.

Ariane 1 first flew in

December, 1979. Ariane 1 is a three stage vehicle using storable liquid propellants in the first two stages, and cryogenic propellants (liquid oxygen and hydrogen) in

the third stage. The Ariane 3 booster will be an Ariane 3 booster.

See ARIANE, page 14

Flight in the flame trench and mobile launch platform. These sensors will be used to prove the belief that no problem ex-

sists at Vandenberg, Calif. The sensors will be used to prove the belief that no problem ex-

ists in areas beneath the orbiter with a potential to explode. Such a problem is believed to exist at the shuttle



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Foreign Students host International Day

Representatives from many nations gather for food, fun, festivities

By Sunil Patel and Fuzi Fuad
Foreign Student Writers

The International students of Embry-Riddle Aeronautical University held their annual International Day '86 on Saturday, November 8, from noon to 6:00 pm at the University Center.

Mr. Robert L. Rockett, Dean of Student Affairs, kicked off the program with a general introduction. Following this, University President Kenneth L. Tallman welcomed the audience to the event saying, "The advent of aviation has drawn the world closer, and it is occasions like this that draw it even closer."

The day's entertainment was started with a parade of nations. People from each country represented on International Day took turns on stage introducing themselves and briefly discussing their countries in their own languages with the translation. Following the parade of nations,

the Turkish Folk Dancers from the University of Florida performed their routines. The Malaysian Instrumental by An-i Mi was a solo performance of the Polynesian Dancers commanded everyone's attention with their eye-catching movements; in addition, they invited members from the audience

The main attraction for the day of festivities was the colorful booths which were themed *A Walk Around The World*. These booths represented countries such as France, Mexico, Japan, India, Bangladesh, Jordan, Greece, Bahrain, Puerto Rico, Venezuela, West Indies, and Nigeria. Each booth displayed a sample of its cultural

rice and chicken to the "Satay" platter from Malaysia.

There was an art exhibit displayed by a number of the program's foreign students. "Barik painting on silk" by Nardin Ahmad (Malaysia), Modern Art by Steve Sall (Uganda), and "Airplane Perspective" by Gregory (Greece).

Overall, this program was proclaimed to be huge success. Mr. Charles Skinner, former Director of the Foreign Students Service, noted "Fantastic! Fabulous! I can't believe it's grown so much. I liked the wonderful food. It's great (that) they had dancing in the program this year."

According to International Day coordinators, this event would not have been possible without the collective contribution of the many foreign students and the various school departments, especially the Foreign Students Services Office.

"The advent of aviation has drawn the world closer, and it is occasions like this that draw it even closer."

—Kenneth L. Tallman
ERAU President

to join in with them. Of course, there wasn't a shortage of volunteers.... There were also some impressive impromptu acts and group participations from Nigeria, Venezuela, Greece, and Puerto Rico.

The "local cuisine" is self-explanatory for each culture.



ERAU student, Amri Maria (top), performed a flute solo before a large audience. Later, a number of Polynesian dancers mesmerized many individuals in the crowd as well.

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Modified F-16 serves as 'hot' test vehicle

By Brian Nickles

As time passes, aviation evolves. This has happened since the birth of manned flight over 200 years ago. Recently this evolution has sped up to keep pace with the computer revolution.

As manufacturers continue the design process of aircraft and in their manufacture, now computers aid in the flying of everything from fighter aircraft to commercial airliners.

Currently, flying is an aircraft which pushes both computer and aviation technologies to "the edge." This aircraft is the AFTI/F-16. Combining a General Dynamics F-16 Fighting Falcon with advanced computer hardware and software under the Advanced Fighter Technology Integration (AFTI) program, the AFTI/F-16 is more than a unique air raft; it is tests many concepts as a flying laboratory.

Among the various advanced subsystems undergoing test on the AFTI/F-16 are digital flight controls, infrared sensor/trackers, a helmet mounted sight, interactive voice controls, a 360 degree radar altimeter, and much more.

The AFTI/F-16 flies on two previous programs—that of fly-by-wire control systems and of control configured vehicles.

Fly-by-wire controls had come under study in the early 1960's, when miniaturization of electronics became sound enough to warrant the development of such a system. By 1966, the concept had grown to the point where a B-47 Stratofortress had a fly-by-wire control system added to its conventional control surfaces. In the course of flight testing between 1967 and 1969 the program advanced to a YF-4E Phantom II test aircraft. The major difference between the two aircraft was that the YF-4E had its conventional control system removed. The Phantom was flown 84 times with a totally fly-by-wire system. These tests showed that the aircraft could be flown with less effort in a more precise manner.

Controlled Configuration Vehicles (CCV) also go back to the '60's, but when applied to a fly-by-wire aircraft are not so apparent, changes to make an aircraft a CCV are. With the addition of canards to the forward areas of the aircraft and modified aerodynamic surfaces elsewhere, CCV's tendencies become noticeable.

Early CCV tests were done on a B-52 Stratofortress, which flew 122 hours with nose-mounted canards. The B-52 studies were concerned less on maneuverability and more on "smoothing the ride," that is, reducing fatigue on both aircrews and airframes.



Vertical Translation Altitude change Altitude constant

Altitude change Altitude constant

Altitude constant

Vertical Translation Altitude change Altitude constant

Altitude constant



The AFTI/F-16 is visibly different from a standard 'Fighting Falcon' as it has canards mounted on the engine air intakes, a FLIR pod on the right wing, joining the 20 mm cannon to the AMAS, improved cockpit displays including a film projector, and a digital terrain management and display system. Also added for Phase II are voice interactive systems, a helmet-mounted sight and a digital weapons interface.

Phase II testing combines the DFCS with the Automated Maneuvering and Attack System (AMAS). Begun in August 1984, a little more than one year after the completion of Phase I, these tests include the addition of a Westinghouse Forward Looking Infrared (FLIR) sensor/tracker pod on the right wing, joining the 20 mm cannon to the AMAS, improved cockpit displays including a film projector, and a digital terrain management and display system. Also added for Phase II are voice interactive systems, a helmet-mounted sight and a digital weapons interface.

The AMAS takes direction from the aircraft's Westinghouse APG-66 pulse-Doppler radar and FLIR pod, and depending on the degree of authority the pilot selects, the AMAS can either assist the pilot or fly the aircraft to the point where the pilot is more of a passenger.

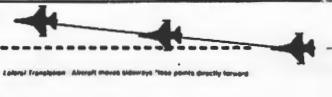
Also linked to the AMAS is a 360 degree radar altimeter, which allows safer "high G" maneuvers down to 200 feet.

The Head-Up Display (HUD) installed in the AFTI/F-16 is more advanced than the standard HUD in a Fighting Falcon, as the AFTI has a field of view of 15 degrees by 20 degrees as opposed to the normal 9 by 13 degree HUD. This increases the amount of information available to the pilot. This information can take the form of flight control, fire control, weapons, radar, FLIR or a combination of these as needed for the mission.

One of the many capabilities of the AMAS is Standard Avionics Integrated Fusing (SAIF). The SAIF system allows weapons to be

fused right before their release from the aircraft. Currently, most ordnance has its fuses pre-set on the ground before the aircraft departs on its mission. With SAIF, the weapons are fused for the parameters then needed at the time of their release. The aircraft can then be at a lower (or higher) altitude for weapons release than with pre-set ordnance.

The helmet mounted sight also is joined to the AMAS, in conjunction with the FLIR pod or radar. The pilot merely looks at the



Lateral Translation Aircraft moves sideways Nose points directly forward



Lateral Path Planning Flight path constant Nose points left or right

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Lateral Path Planning Flight path constant Nose points left or right

desired target, aligns the crosshairs and switches on the system of choice. The IR seeker or laser in the FLIR pod or the radar in the aircraft's nose then shift onto the target to provide ranging and acquisition information. This information can then be used for air-to-air work or air-to-ground use and help guide weaponry to target as required.

The voice system is interactive, that is the pilot can receive "voice" responses to vocal queries to the computer. The computer reloads a cassette with his voice commands so that the computer can recognize these commands.

With voice commands, the pilot can select (but not fire) weapons, call up radio frequencies and perform navigation functions (among others). This allows the pilot to keep his eyes outside the aircraft during complex maneuvering and reduce his hands on the controls. This speeds the reaction time of the pilot and reduces reaction time can mean the difference between victory or defeat in the cockpit.

The use of a voice in the cockpit is not new, but the use of an interactive voice is. The F-15s and F-16s currently in use are equipped with voice warning systems for functions such as danger zones oversteering, low airspeed or engine failure.

The AFTI/F-16 has made 100 flights so far and the program currently has funding until January 1987. With all the various systems that it has tested, the only conclusion that can be made is that the program is highly successful. The various tests that have been made will undoubtedly appear again, however at that time they will likely not be on operational, rather than test, aircraft.

The aircraft in flight will eventually see spin-offs from the program all the way to the end, increasing passenger comfort and improving reliability and maintainability, while the military applications are sure to be seen soon.

Aircraft such as the National Aerospace Plane, the Air Force's proposed Advanced Technology Fighter and even aircraft already in use under design will benefit from the advances made with the AFTI/F-16. But under a close look, one thought that comes to mind is that flying the program is that the fictional aircraft that appear in such movies as "FireFox" or "Star Wars" may not be so far-fetched after all.



This view of the AFTI/F-16 from a KIC-135 aerial tanker aircraft shows the Forward Looking Infrared (FLIR) pod on the right wing, and a dummy aerodynamic load on the left.

Prescott develops stretch former for 'Pusher' plane

By Prescott Aeronautical Corporation

WICHITA, KS — Prescott Aeronautical Corporation has designed and built a special "hydraulically-actuated stretch former" for the Boeing 727 aircraft. The device is used to form leading edge skins for the Boeing 727 aircraft.

"The machine is unique," said

Boeing Chairman Linden Blue, "in that we're able to form 6

inches of skin in one stretch. Since the company is not tied to

any particular aircraft,



Leading edge skins for the Boeing 727 aircraft are formed in a special "hydraulically-actuated stretch former" developed by Prescott Aeronautical Corporation.

In 1974, the AF Flight Dynamics Laboratory (under whose sponsorship all these studies took place), modified the fly-by-wire YF-4E into a CCV testbed. This aircraft completed about thirty flights in this role before being retired.

The next step in the genesis of the AFTI was the YF-16/CCV.

Using the first prototype YF-16, the aircraft's fly-by-wire system was modified to handle CCV flight. Canards were added to the engine inlet adjacent to the nose wheel, and changes were made to the cockpit to handle the aircraft in its new role. 87 flights and 125 hours later, the YF-16/CCV proved that a CCV aircraft was capable of more maneuverable and economical flight than a conventional aircraft.

With the success of the various test programs, it came time to test them all on one airframe. McDonnell Douglas proposed an F-15 test vehicle, while General Dynamics pushed for the selection of an F-16 as the testbed.

The contract, won by General Dynamics in December 1978, was for a development and demonstration aircraft for AFTI technologies. These technologies include triply redundant digital task-tailored controls, CCV modes of flight and advanced cockpit designs.

Using a pre-production F-16, which was returned to General Dynamics for modification in March 1980, AFTI trials started in July of 1982 as Phase I testing began.

Phase I tests confirmed the Digital Flight Control System (DFCS) in conjunction with the CCV equipment of the aircraft, in which the AFTI/F-16 flies with "decoupled" motion.

Decoupled motion is when motion is separated from the usual motions of a flight maneuver. When a pilot of a conventional F-16 (or any other aircraft) wants to turn right, he rolls the plane into a right bank, pulls back on the yoke or stick to bring the nose around, and then rights the aircraft by rolling out of the bank. With the AFTI/F-16, the pilot applies the appropriate rudder control, and the nose swings right, changing the direction of flight, with no bank (wings level). The only problem with this type of flying is that the pilots of aircraft flying formation on the AFTI/F-16 during these maneuvers have no visual cues as to what the aircraft is doing.



This view of the AFTI/F-16 from a KC-135 aerial tanker aircraft shows the Forward Looking Infrared (FLIR) pod on the right wing, and a dummy aerodynamic load on the left.

Air Force Flight Test Center photo by Cooper



Prescot Aeronautical Corporation photo

Prescot Aeronautical Corporation's newly developed stretch-former is put to work as hydraulic pressure moves the die upward to form a Pusher wing leading edge.

Prescott develops stretch former for 'Pusher' plane

By Prescott Aeronautical Corporation

WICHITA, KS — Prescott Aeronautical Corporation has designed and built a special hydraulically-actuated stretch forming machine to pull and form leading edge skins for the Prescott Pusher kit-built aircraft, including the wings which measure 12 feet each in length.

"The machine is unique," said Board Chairman Linden Blue, "in that we're able to form extremely long parts — including the wing leading edges — as one-piece components instead of having to use shorter lengths which would have to be joined."

The stretch form machine further expands the company's in-house capabilities, resulting in reduced cost for parts and adherence to delivery schedules

since the company is not tied to vendor deliveries.

"Leading-edge dies are designed using Prescott's CAD/CAM (Computer-Aided Design and Computer-Aided Manufacturing) system," noted Blue. "This production method assures that all parts fit, since the CAD/CAM is accurate to eleven decimal places and beyond. Such accuracy and repeatability is possible only through computerization, adding to ease of assembly by builders."

Leading edge skins for Pusher kits produced on the stretch form are of heat-treated aluminum. These include the rudder, horizontal and vertical stabilizers, and wings. Skins for other components, such as the elevator trim tab, elevator, ailerons and flaps are break-formed from pre-hardened 2034-T3 aluminum.

defined target coordinates and switches on the system choice. The IR seeker or laser in the FLIR pod or the radar in the aircraft's nose then sight onto the target to provide ranging and acquisition information. This information can then be used for air-to-air work or air-to-ground use and help guide weaponry to target as required.

The voice systems are interactive, that is the pilot can receive "voice" responses to vocal queries to the computer. The pilot preloads a cassette with his voice commands so that the computer can recognize these commands.

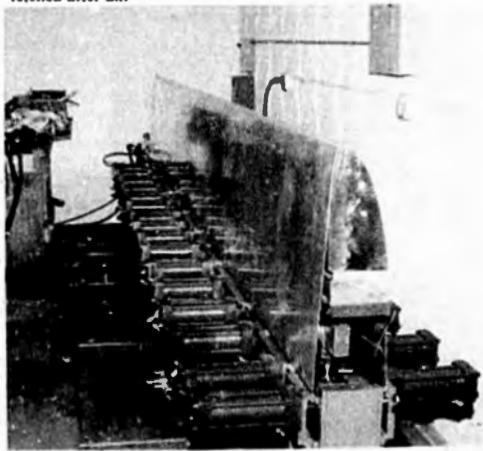
With voice commands, the pilot can select (but not fire) weapons, call up radio frequencies and perform navigation functions (among others). This allows the pilot to keep his eyes outside the aircraft during air combat maneuvering, and his hands on the controls. This speeds the reaction time of the pilot, and a reduced reaction time can mean the difference between victory or defeat in the combat area.

The use of a voice in the cockpit is not new, but the use of an interactive voice is. The F-15s and F-16s currently in use are equipped with voice warning systems for functions such as dangers of overstressing the airframe or engine.

The AFTI/F-16 has made 192 flights so far and the program currently has funding until January 1987. With all the various systems that it has tested, the only conclusion that can be made is that the program is highly successful. The various tests that have been made will undoubtedly appear again, however at that time they will more likely than not be on operational, rather than test, aircraft.

The civil aviation field will eventually see spin-offs from the program, all in the name of saving fuel, increasing passenger comfort and improving reliability and maintainability, while the military applications are sure to be seen soon.

Aircraft such as the National Aerospace Plane, the Air Force's proposed Advanced Technology Fighter and even aircraft already in use or under design will benefit from the advances made with the AFTI/F-16. But under a close look, one thought that comes to mind when studying the program is that the fictional aircraft that appear in such movies as "Firefox" or "Star Wars" may not be so far-fetched after all.



Prescot Aeronautical Corporation photo

The die has fully stretched the heat-treated aluminum, forming one of many pre-formed parts contained in a Prescott Pusher airplane kit.

Account of Spitfire's birth as told by an insider

By Brian Nickles

Birth of a Legend: The Spitfire, by Jeff Quill, Smithsonian Institution Press, Washington, DC, 150 pages, 103 B&W illustrations. Price \$22.50

On the fifth of March, 1936, the prototype Spitfire took to the air for the first time. As the fiftieth anniversary of Supermarine's aircraft is celebrated this year, a virtual parade of books has come out in commemoration. Jeffrey Quill's book should be placed at the top of the list of the insight provided by a Supermarine test pilot is irreplaceable.

Birth of a legend is a most appropriate title, as Quill traces the heritage and conception of the Spitfire, beginning with designer R. J. Mitchell's first work at Supermarine. Also covered are the various Schneider Trophy racers built by Supermarine, whose lines the Spitfire reflects.

In fact, chapters are specifically devoted to the racers, and these are also used to provide a history of the development of high-speed aircraft by the U.S., Italy and Great Britain. Intertwined with the improvements in aerodynamics that the racers brought about, is the equally important changes wrought in powerplants. Also discussed are



This Supermarine Spitfire Mk. IX was recently loaned for display to the Experimental Aircraft Association by owner Cliff Robertson. The developmental and early history of the Spitfire is the subject of a new book from the Smithsonian.

EAA photo

the various flying boats that the Supermarine firm first became famous for.

But then what really brought about the Spitfire were the men who closely dealt with the project. Quill devotes several chapters to some separate chapters to some of them, notably Joseph "Mutt" Summers, Supermarine's chief test pilot (and the first to fly the Spitfire) and Ernest Hives, who had led the development of the Royal Navy's Merlin engine. Both helped to spark the Spitfire. But many pages are spent covering Supermarine's "other", R. J. Mitchell. Mitchell is recognized all over the world as one of the true greats of aero-design, and that recognition is well deserved. His death after his untimely death in the summer of 1937 is testimony to the qualities of the basic design.

Production of the Spitfire is covered in concise detail, showing how the decisions were made to produce the fighter at various plants in England. This includes

the progressive changes that were made to the aircraft, under the guidance of Joseph Smith, who had taken over as Chief Designer after R. J. Mitchell's death.

The book closes on quick looks at the aerial conflict over Dunkirk, and the Battle of Britain. Quill concludes with a comparison of the "Spit" with its' allies and enemies, and this brings about some wonderful insight into someone who has clearly flew the Spitfire as a combat pilot, but as a test pilot as well.

If you are looking for a book that gives detail on each and every detail on Supermarine's lovely little fighter, look elsewhere. If you are interested in the Spitfire, however, you will be well built, look no further. Quill has done an excellent job, and it would be great if others so intimately involved with such amazing machines and events could tell their stories this well.

Review copy provided by Smithsonian Institution Press

LIBRARY

(continued from page 3)
ways as greater inventory control and systematic recording of order and materials.

To provide a fast check-out to students, faculty, and staff, it will be necessary for everyone to complete a registration form and receive a unique barcode for their I.D. card which will enable them to check out library materials.

Mr. Ciro went on to say "The system is not online yet... but the terminals is a visible sign of things to come."

The system is scheduled to be completely online in the spring of 1987, but "come January or we will be online for circulation."

Once the system is fully implemented and tested, the students can, through terminals,

access the card catalog, NASA, and other documents that are not in the current card catalog.

When asked if various systems were researched, Kathleen Ciro said, "We went through a detailed process of system investigation.... for what our needs are, we definitely have one of the top three systems."

MEET

(continued from page 1)

Head Coach Mike Wiggins outlined the developing schedule of events which was developed by the coaching staff of the Flight Team. He noted, "We learned a lot from the Nationals last year and applied that to developing the program for this year." According to Wiggins, the Flight Team will take time to relax and regroup before re-forming again then in January, begin preparing for the National Competition to

be held in late April.

Wiggins and Connolly both mentioned several individuals who have been invited to make the Flight Meet.

Team member George Macdonald coordinated with the other par-

ticipating aircraft through the traffic pattern.

The competition ran so smoothly that there were no technical items left over and a CFI landing event was added. Wynn said, "There were too many people to mention who put in long hours on a variety of jobs and projects. The Flight Team really appreciated their hard work."

MOVIES

(continued from page 1)

The SGA video rental currently has 175 different movies ranging from comedy and horror to science fiction. "The only kind of movies that we do not have are X-rated due to university policies but, we are working on that," Mr. Seckinger commented.

According to a sources, when

students rented videos, they also

wanted to rent tape players to view the tapes. So the SGA decided to invest \$2000 of unallocated funds in the purchase four videotape recorders. Students and staff can now rent video players for four dollars per day during the week; ten dollars per weekend. "We think that the tape players will be a big money

generating asset for the SGA," Mr. Seckinger stated.

Students of this kind, where local companies are invited to invest in ERAU and to share their profits with the SGA, include the Jukebox located in the University Center, and a proposal to place vending machines in the off-campus residence centers.

Graduating Seniors

If a prospective employer requests an official transcript for a job interview, we must have a written request from you before that information can be released. Remember that official and unofficial transcripts require financial clearance. Official transcripts are \$3 per copy.

In accordance with the University policy, as stated in the Graduation Requirements section of the Embry-Riddle Aeronautical University Catalog, effective immediately all students will be required to have successfully completed all of the required courses and financial obligations before they will be allowed to participate in graduation ceremonies. This includes all degree requirements, final grades, and all financials. Each course must be completed prior to the date and time that senior grades are due in the Office of Registration and Records in order for student to participate in that graduation ceremony. Senior grades cannot be submitted to the Office of Registration and Records after that time will be eligible to participate in the next graduation ceremony. Those students completing after the specified deadline will follow the schedule below for ceremony participation.

Leadership and Involvement award

The Student Government Assoc. is accepting nominees for the Leadership and Involvement Award for the Dec. 1986 Graduating Class. The application will be available at the SGA Office on through Wednesday, Nov. 26. If you or someone you know has been involved in fraternal, club or organizations or off campus, as a leader or participant, you may be eligible for this award. The presentation of this award is made at the Friday Night Graduation Social, Dec. 12, the SGA Pre-dinner.

Apply now!

Computer Science Majors

Computer Science Majors are urged to attend a meeting Friday, Nov. 21 from 1:30 to 2:30 p.m. in room C-415.

Information regarding your employment potential, career opportunities, co-op opportunities that help you pay for part of your education, and student honor society and professional organizations.

During the question and answer period, specific questions will be addressed.

Brothers of the Wind Charity Dance

Brothers of the Wind is having their first annual Feed the Hungry Dance Nov. 14 at

Term of Completion Spring Summer Term of Ceremony Attendance Summer Fall Spring

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See NOTICES, page 8

NOTICES

FAA Written Examination Schedules

Embry-Riddle will administer FAA P-34 and/or Instructor Written Examinations on the following dates:

Nov. 25 Term: 8:30 a.m. HI-131
Nov. 22 Term: 9:30 a.m. HI-133

Experience Plus

Did you...
• Enter ERAU after a break of four years or more from academic studies?
• Start College late?
• Are you...
• Getting together with others in your same situation?
• Receiving tips in such areas as test taking, self management and stress reduction?
• Having the opportunity to form a new network of supportive friends?

If yes, then Experience Plus is the group which will meet Friday from 1:30 to 2:45 p.m. in the Faculty Staff Lounge. The group is open to all continuing students. Call Lynne Evans at ext. 1047 for additional information.

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Sunday November 16, 9:00 a.m.
150 Miles of scenic riding
5 Checkpoints

Best Hand Wins 1 Playing Card Per Point

ALSO PRIZES FOR:

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CLEANEST BIKE
AND MORE...

Prizes On Display In U.C. Showcase

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GLIDER CONTEST

Paper Range Balsa Range

Balsa Endurance

1:30 Thursday, November 24 In the University Center

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WITH VALID I.D. 25% OFF

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Did you...

- Enter ERAU after a break of four years or more from academic studies?
- Start College late?
- Are you...
- Getting together with others in your same situation?
- Receiving tips is such areas as test taking, self management and stress reduction?
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Information on enhancing your employment potential, career opportunities, co-op opportunities that help you pay for part of your education, and student honor society and professional organizations.

During the question and answer period, specific questions will be addressed.

Brothers of the Wind Charity Dance

Brothers of the Wind is having their first annual Feed the Hungry Dance Nov. 14 at 8:30 p.m. The admission to the dance will be at least two canned goods. The proceeds will go to the campus ministry and Father Murphy will deliver them to the Urban Ministry to be distributed throughout Volusia County. Brothers of the Wind would appreciate any and all help from other club and organizations.

after that time, students eligible to participate in the next graduation ceremony. Those students completing after the specified deadline will follow the schedule below for ceremony participation.

Term of Completion
Spring
Summer
Fall

Term of Ceremony Attendance
Summer
Fall
Spring

See NOTICES, page 8

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If you don't have a VCR, get together with your buddies and rent one. VCR and 1 movie only \$10. Extra movies \$3 each.

Club rates: Monday - Thursday 1st tape \$3, extra movies \$1.99 each. Friday all movies \$3. Saturday 2 FOR 1 special, two movies for \$3.

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RIDDLE RIDER ROAD RALLY

Sunday November 16, 9:00 a.m.
150 Miles of scenic riding
5 Checkpoints

Best Hand Wins 1 Playing Card Per Point

ALSO PRIZES FOR:

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Starting at the Daytona Mall
Finishing at the ERAU BBQ Pit

Proceeds to benefit
Rider Education
Scholarships

\$5 Registration Fee

AIAA

GLIDER CONTEST

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3000 FOODS DELI SANDWICHES

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ARMY ROTC

Army Reserve
Officer Training Corps

By CPT Laura L. Skamru
Army ROTC

Army personnel managers have been given the green light to move forward with a variety of new programs and policies including Reserve Officer Training Corps. During a recent in-progress review of officer corps issues, Gen. John A. Wickham, Jr., Army chief of staff reaffirmed his earlier decisions regarding the phased implementation of the reserve components.

Some of the highlights of that program review include: approval of an incentive program for ROTC that would provide an annual educational allowance of \$1000-1400; no scholarship cadets enrolled in Military Science II-IV.

One of the major challenges for college ROTC detachments will be to increase production at a time when the target population of college students is declining. Last year about 8000 Lieutenants were commissioned from ROTC.

The Army expects that by 1990 its annual requirement will be 10,000. Most of the additional officers will be assigned to the reserve components."

A hearty welcome is extended to CPT Sheaf and MSG Gore who are new to the detachment this fall. CPT Ralph E. Shoal (MSII) instructor, Historical Officer) came to ERAU from Co. A, Infantry Group, USAFIC, Ft. Benning, Georgia. CPT Sheaf's principal duty was Chief Mech

Committee. He obtained a bachelor degree in Police Administration at Eastern Kentucky University. His awards and decorations include the Army Service Ribbon, and Army Commendation Medal with Oak Leaf Cluster.

MSG William F. Gore, Jr. (Assistant Adjutant General, Admin. NCO) came from Co. A 2d Battalion, USAFIC, Ft. Gordon, Georgia where he was a Senior Instructor. His awards and decorations include the Combat Infantry Badge, Republic of Vietnam Campaign Ribbon, Drill SGT Badge, Army Commendation Medal with Oak Leaf Cluster, Army Achievement Medal, and Good Conduct (7) award.

RIDDLE RIDERS

By Rick Fingers
Riders President

The third annual Riddle Rider road rally will be this Sunday, Nov. 16. The event will begin at the Daytona Mall at 3 a.m. with motorcycle inspections. After 150 miles of scenic riding with five checkpoints, the run will lead to the ERAU BBQ pit for a cook out and prize give-a-ways. Many prizes and services have been donated by local businesses and organizations; some of which are on display in the U.C. showcase today. All of the proceeds gathered from the five dollar registration fee will be donated to the Rider Education Scholarship to benefit motorcyclists in the local area.

Last week's social was very revealing as Skamus sharpened his shrimping techniques and Two Stroke got some talk. The nurse was there and she knew what boys liked.

The club went on its first camping trip this summer to Anastasia State Park near St. Augustine. There was plenty to offer at the park such as wind surfing, swimming, boating and even sand board slide presentations by the club. Most of the organization stayed in the secluded camping areas to enjoy some fine outdoor cooking and over six and a half pounds of beans. As the day went on the excitement began, there was Frisbee throwing, vine swinging, arson training, and split-witted a very unique wood car-

ing. He also marked and designated club territory about every ten minutes.

The club got a call from Chuck Lee, our Club founder, who sends a Hello to everyone. Chuck may be attending the road rally on his new Harley Davidson Heritage softail.

The Road Rally is sure to be for all, so come out and enjoy a nice ride, great prizes and food and drink afterwards. See you guys there! There is a meeting this Thursday, Nov. 13, at 7 p.m. in room E-601, everyone is welcome to attend. If there are any questions about the club or upcoming events, drop a note in the Riddle Rider box in the student activities office. Ride aware—show you care.

ΔX Delta Chi

By Chris Reilly
P.R. Chairman

Well, the term is almost over, and boy what a fun one. A bunch of brothers, pledges, and little brothers had a great time at the Florida chapter. Everyone that went sure had a great time both days.

This weekend's a party is visi-

to Alpha Phi sorority at Rollin College. Our pledges are still keeping pace and doing well. They have been working fund raisers at the Ocean Center for several concerns. Remember the Ocean Center? On Saturday there will be an individual question and answer period, this is the last one for the term so any brother who hasn't been inter-

viewed, this is your last chance.

We won our first football game of the tournament. Our hockey team is ready for the season and our bowling team holds steady at the top of the league. Also our little sisters have started up a flag football team to play other fraternity's little sisters. I'll keep you posted on that one.

ΣΧ Sigma Chi

By Steve Avakian
Editor

The Sigma Chi/Red Cross blood drive held Oct. 30 and 31 yielded a total of 270 pints of blood. Thanks to all who donated blood. Your generous gift was greatly appreciated. A big thank you goes to Brother Bill Gutierrez for the great job he did in organizing this event, he spent

a good deal of his time to make sure it was a success, and it was.

The Pledge Brothers have passed their first review period and are on the road to becoming Brothers. They still have much more work to do and things to learn, but the Brothers have placed their confidence in these men to strive for their goal and we are sure they will accomplish it with a

little persistence.

The chapter is in the process of renovating the pool and are looking forward to completing it soon. A new jump, water lines, and remodeling of the interior are just a few of the changes being made. The final touch will be the repainting of the Sigma Chi Badge on the bottom of the pool, which is what makes it totally unique.

ΘΦΑ Theta Phi Alpha

By Francesca Lewis
Chapter Editor

The Theta Phi Alpha sisters were happy to meet Julie Herr, a Theta Phi national director who came to speak to members and answer some of our questions. Our advisor, Linda Prince, was also at our last meeting. She received a wedding present and congratulations from the sisters

on her wedding.

We continue to be active with fund raisers at the Ocean Center. The next concert we will be working at will be Nov. 14, 15, and 16. We are also working for the Organ Donor Booth, you may even decide to donate!

The Theta Phi Alpha sister of the month is Nancy Gutiierrez! She has been doing a lot of work

for the sorority and has kept things running smoothly here at home and with Nationals. Nancy enjoys being President of the sorority, even with all the work it takes. Nancy is also involved in showing initiative and being organized! She has been very busy with the sorority and is keeping decent grades in school.

Happy Birthday to Kim Harrington! It is on the 18th.

Skydivers

By Tom Albert
Vice President

It's been a real exciting semester for the Skydiving club. Many a "case of refreshments" have been served by students very actively pursuing the exciting sport of parachuting.

Erik Aubin, who started skydiving this trimester is off stu-

dent status and will be allowed to participate in relative work with others after 5 solo jumps. Congratulations Erik!

The club is also working on other students, such as Misao Mizuno, Jose Azurduy, Dennis McShane, John Goszinski, Adam Weinstein, Jack Ware and others who are well on their way to removing themselves from student status

and we are very glad they are working so hard.

The club officers are now working on getting the Riddle Skydiving club back into the College meet, which is held once a year. While next year's date is not official, the meet will be held in the nearby Skydive Delano drop zone.

See DIVE, page 10

LA PALOMA

LA PALOMA FITNESS CENTER Inc.

FREE TRIAL WORKOUT

- * Free weight area
- * Complete all chrome training system
- * Aerobic classes
- * Electric exercise cycle
- * Locker room and showers
- * Juice and protein bar
- * Specific conditioning for beginners and advanced
- Individual physical profile charts
- * 4,000 sq ft workout area
- * Outdoor deck on the river

Membership can be frozen for vacation

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Bridgewater

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Razzle's

La Razzle's
Muscle Night
Men & Women
Cash Prices/Drinks Specials

Tues.
Ladies Night Ladies Drink Free
Guys: 1.00 Honey B Schnapps
Wet.

Free Champagne for Ladies All Night
Razzle's Introducing: the MATING GAME
Come to participate or to watch!

Thurs.
Up Side Contest
150 Cash Prize
Compete for the Grand Prize
of an Alpine car audio system
plus cash by Smoothees

Fri.
TOBY Party 9-9
Happy Hour Priced Drinks and Free Buffet
Sat.
Party Night at Razzle's

Sun.
V.I.P. Night
Show your card
Drink free 9-11

NAVAL

Naval
Aviation Club

By Kelly Childs
Club Writer

With the Naval club's continuation of naval pilot's communications to speak, we tend to forget another very important aspect of naval aviation, the naval flight officer. Either by choice or due to medical reasons a vast majority of naval aviators are flight commanders through the NFO pipeline. NFOs operate the tactical and communication systems aboard Navy aircraft. NFOs can train to become radar intercept officers, bombardier/navigators, tactical coordinators or airborne elec-

tronic warfare specialists.

Similar to naval pilots, NFOs start basic training with AOCs. Their training consists of aircraft components, navigation and instrument navigation, computer systems, radar, and meteorology. They train in simulators and learn to navigate and operate different types of aircraft systems. They also receive about seven to ten hours of actual service to their home station where they use the basic navigation and tactical deployment skills.

From basic training they proceed to intermediate training in jets or props. There are no NFOs aboard helicopters. After they

they proceed to advance training. If they are selected for jets they are trained in airborne tactics, tactics systems, radar intercept, tactics navigation, or overwater navigation. T-38s going on to prove train to become intermediate undergraduate navigators.

After successful completion of advanced training NFOs receive their wings. They then go to fleet readiness training and go on to their first operational tour. As most of us in ERAU strive to become pilots we must not overlook the NFOs. Without them we would have no Navy.

VETERANS

Veteran's Club

By Lisa Doyle
Club writer

Just when you thought all the political and elections were over, there is one more to go! The exception is that these candidates won't be badmouthing each other to defamation (I hope)! Vets club elections for 1987 will be held Saturday, Nov. 14, at the C.R.P. Any interested candidates should contact Bob A'Hearn at 761-6063 to ensure you qualify for office. You must attend the meeting to run, and you must attend to VOTE. All active members are eligible, and

there will be no absentee ballots.

However, there will be one more meeting before elections this Friday, Nov. 14, at a time and place to be announced. The decision has been made to hold the Christmas party at Treasure Island Inn. Due to the financial problems we have encountered this trimester, (Registration postponements), tickets will be sold for the party at \$10.00 apiece, be it a member or guest. This is worth the ten-spot, especially since we must remember that the new board needs funds to begin next year before the revenue from the

Riddle Regatta committee met last Wednesday with city officials to finalize arrangements for holding the race in April. We are still looking for some co-sponsors, so if anybody has any ideas, please bring them to attention. The cost of the above mentioned numbers. Some of us may not be able to enjoy it this term, but with all of the pitfalls, at least we will still have the traditional Riddle Regatta!

Please attend the meeting Friday!

Management Club

By Michael C. Lum
President

The Management Club is pleased to announce that Dr. Leo S. Lurie, Vice President of Planning and Facilities at Eastern Airlines will speak to the club this Friday, Nov. 14, at 7:00 p.m. in room A-109. A reception will follow in the C.R.P. where members will have the opportunity to speak with Mr. Klingenspersch.

The topic of Mr. Klingenspersch's discussion will be the projects he

coordinated at Eastern and the company's position in the industry since the takeover by Texas Air. Mr. Klingenspersch will also speculate on the future of Eastern given the current situation.

Many analysts believe Texas Air will operate Eastern as a separate subsidiary; as opposed to the consolidation of Continental and People Express, also owned by Mr. Klingenspersch.

Texas Air managers could already be seen. People Express has dropped service from Newark to Miami and Ft. Myers, routes which

it faced stiff competition from Eastern. Without the competition from People Express, Eastern will attain higher load factors, increasing its profitability on the route.

The timetable project for the airport is coming along slower than expected. The delay is due to airline schedule changes that took place at the end of October. Final timetable will be available Dec. 15.

If you would like to attend the meeting on Nov. 14, drop a note to Kris Koenig at box 6942.

AXA

Lambda Chi Alpha

By Geoff Waxman
Chapler Editor

AHP pledge interviews went by without a hitch, all pledges and brothers performed well under pressure. Let's hope they can perform a little better during third and final interviews. Third interviews will be on Thursday the 13th of November.

AHP had its house opening on October 30th, and it was a great success. The mayor of Daytona and President Tallman cut the ribbon to our new house. Doc Horowitz has been a tremendous ally to us, and without him none of our pledges would have a place. We raise a glass of Chivas to him, and toast him for all the help. Marel Tov it's finished. Also present were Mr. Van Bitter, Dr. Batty, Dr. Connolly, Dean Rocket, and Mr. Kelly. Chairman of the house, Marel Tov, is now back in Deland so let's get out there and Rock-N-Roll to altitude.

propel us into an even greater future.

Halloween was a blast this year, as we held all our parties at the RHO house. The brothers who worked getting it all together did an excellent job, even if they didn't give out the large trophy. The driveway was full of original costumes, lunatics, and frolickers. Some of the most memorable ones were: the phone chucks, Spunks, the Flasher, the AVSOR, the Devil, the Wicked Witch, the Bloody Tourists, the Cave People, and the Gangstas.

Notes of Interest: ERAU Flight Team did a super job at the Riddle Regatta, and at Carbondale, Will Bon-Bon and EJM get back together stay tuned. Tom Starkey did a great job organizing the races, Mudd pictures get washed out, Beta Alpha Pledges Class initiated their annual project, Joe Paganis comes through with great shirts and stuff for the bo's, Shredd is Keg Troll, Kissimmee Air Show happened, Deja-Vu has nothing going on in his brain. Five Brothers were initiated in a great day, and the repeat performances. Brother Dave was noted to Brother Dave that "I am better than you".

AHP football won their first round in the football playoffs against the Dawgs 18-0. Regards to our Buddy Ernie. Delta Chi managed to ruin our flawless season with an 8-0 victory over us. The might as well enjoy our victory over us because there is no repeat performance. Brother Dave was noted to Brother Dave that "I am better than you".

DINO'S PIZZA * FRESH DOUGH DAILY * DINO'S PIZZA * FAST DELIVERY * GREATEST

GREAT SUBS - FRESH DOUGH

Special Price

Other projects will be the first to hit the market. This month we are a drop zone day, an "ACE" (All Collegiate Eightway) to consist of all Riddle students. A date will be posted, come down and watch us!

Soon the club will be acquiring

altimeters, helmets, jump suits

and when funds permit, a used

rig to ease demand on the single

rig that we have. As you can see

above, money is a problem.

For those of you who have not

paid your dues...Please pay!

The doughnut sales have been going rather well. Though we still need help to keep the profits up.

T-shirt designs are in the process of being finalized and will be able to order them soon.

See you all around. As always

Mr. Douglas

(DC-3) is now back in Deland so

let's get out there and Rock-N-

Roll to altitude.

was as proud as can be. This

house stands as a tribute to our

great fraternity, and will help

Brother Dave wants to know if Brother Dave that "I am better than you".

for four pledges, Santa Claus is

on the right track, and Deer

Season is now officially open.

DINO'S PIZZA * FRESH DOUGH DAILY * DINO'S PIZZA * FAST DELIVERY * GREATEST

GREAT SUBS - FRESH DOUGH

DINO'S DELIVERS



WE DELIVER BEER,
SALADS, PASTA AND SUBS

Dino's Pizza

Buy One Get One

FREE

Any Large Two Item Pizza For \$10.95

Excluding Extra Cheese

Buy One Get One

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Any Small Two Item Pizza For \$7.45

1510 S. Ridgewood

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Coupon Good On Dine-In, Pickup

or Delivery

Prices Do Not Include

Tax or .50¢ Delivery Fee

DINO'S * GREATEST SUBS * FAST DELIVERY * DINO'S PIZZA * FAST DELIVERY *

Special Price
for
E-RAU Students

Great Clips for great profiles.



Nobody else has your looks. And after you've had your hair done at Great Clips, nobody will look as fantastic as you either. Always a quality wet style cut and blow-dry. And you never need an appointment (except for perms). So come on in.

Great Clips \$7
Nobody does what we do:

Volusia Point
(Next to Mr. Gatti's)

255-7701

"Lost Presence of Mind" A good lesson in safety and in common sense

Anonymous

Below is a letter I would like to share with all of you.

Dear Sir:

I am writing in response to your request for additional information in Block #3 of the accident reporting form. I put quote - LOST PRESENCE OF MIND - as the cause of my accident. You said in your letter that I should explain more fully, and I trust that the following details will be sufficient.

I am a bricklayer by trade. On the day of the accident, I was working alone on the roof of a six story building. When I completed my work, I discovered that I had about 500 lbs. of bricks left over. Rather than carry the bricks down by hand, I decided to lower them in a barrel by using a pulley which was fastened and attached to the side of the building at the sixth floor.

Securing the rope at ground level, I went up to the roof, swing the barrel out, and loaded the brick into it. Then I went back to the ground and untied the rope, holding it tightly to insure a slow descent of the barrel. I then lowered the barrel with the 500 lbs. of bricks. You will note that I weighed 135 lbs.

Due to my surprise at being jerked off the ground so suddenly, I Lost My Presence of Mind and forgot to let go of the rope. Needless to say, I proceeded as

a rather rapid rate up the side of the building.

In the vicinity of the third floor, I met the barrel coming down. This explains the fractured skull and broken collarbone.

Slowed only slightly, I continued my rapid ascent, again stopping with the fingers of my right hand two-fingers deep into the pulley.

Fortunately, by this time I had regained my Presence of Mind and was able to hold tightly to the rope in spite of my pain.

At approximately the same time, however, the barrel of bricks had descended - and the bottom fell out of the barrel devoid of the weight of the bricks; the barrel now weighed approximately 50 lbs.

I refer you again to my weight in block #1. As you might imagine, I began a rapid descent down the side of the building.

In the vicinity of the third floor, I met the barrel coming up. This accounts for the two fractured ankles and the lacerations of my legs and lower body.

This encounter with the slowed enough to lessen my injuries when I fell into the pile of bricks, and fortunately, only three vertebrae were cracked; I am still however, still as I was before the fall on the bricks - in pain, unable to stand, and watching the empty barrel six stories above me. I again Lost Presence of Mind — I LET GO OF THE ROPE.

LET'S REMAIN SAFETY CONSCIOUS

"An Afternoon With Mozart" wins big

By Timothy Van Milligan

They say that Yogi has more culture than Dayton's Beach.

"They" should have been at Daytona Beach Community College yesterday afternoon to hear the Daytona Beach Civic Orchestra. For a capacity audience at DBCC's Theater Center, "an afternoon of Mozart" was the title of the program presented by the Division of Cultural Affairs and the Music Department of DBCC under combined forces of the Daytona Beach Civic Orchestra.

the Daytona Beach Choral Society, the Bethune-Cookman College Vocal Ensemble, and the Daytona Beach Community College Concert Choir.

The program presented was Mozart's Symphony No. 38 in D, the "Prague," K. 504 (1766) and Mass in C, the "Coronation," K. 317 (1779). The concert on a whole was very exciting; never slow down to let you mind drift, for it has a home. Even the fact that the concert was held in the cramped Theater Center couldn't keep this music from

reaching deep within the audience; there were no spectators.

The Civic Orchestra will not be performing again this trimester, but will be on Sunday, May 17. Box Concerts will begin at 3:00 p.m.

Performing soloists were: Mel Long Anglin (Soprano), Jane Christensen (Mezzo-soprano), John Walker (Tenor), and William Hill (Bass). The Daytona Beach Civic Orchestra was under the direction of Norton Christensen, Conductor.

Cultural Programs offered by DBCC this trimester

THEATER

The Florida Theatre Conference

November 12, 13, 14, 15, 16

Goddard Center and Theater Center

SETC screen audience, state

theatre competitions, twelve professional, community and educational productions. Workshops, lectures, and much more. Hosts:

Dr. Kenneth Walker, Mel Horlic.

Menotti's Amahl and the Night Visitors

December 12, 13, 14

Theater Center

The touching opera of the Christmas season. Conducted by Norton Christensen, staged by Pat Curtis, choreographed by Jessie Wood.

The Madrigal Dinner

November 29, 30, December 5,

Goddard Center for the Arts

An evening of feasting and entertainment in the Medieval manner. During the dinner, madrigals will be sung, tumbling and juggl-

ing displayed in addition to authentic Renaissance dance. Strumming minstrels will be heard singing early ballads of the period, all dressed in ornate costumes of the 16th century.

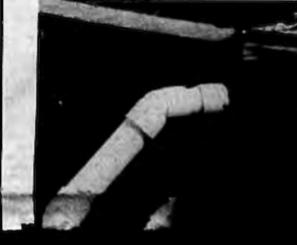
MUSIC

DBCC Christmas Band Concert

Monday, Dec. 15 at 8:00 p.m.

Theater Center Holiday program featuring combined ensembles under the direction of Douglas Peterson.

WHERE AM I?



WHERE AM I?



This picture was taken on the Daytona Beach Campus. It is something or somewhere in plain view of the discerning eye. If you think you know what or where it is, you can win a free subscription to the Avion. Entries must be placed in the contest box in the Avion office, and be received by Friday at 5 p.m. In case of multiple correct answers, a winner will be drawn by the Avion photo editor.

Our congratulations go out to this week's winner, Jenny Christensen, who correctly identified the location of the Oct. 29 Where am I photo, which was the chain link fence in front of the Engineering Building.



MATHEMATICS CORNER

By Dr. Shrinivas S. Dalal
Mathematics Department

Welcome to the second installment of the mathematics corner. This week we have three problems for you to solve and one mathematical curiosity to think about. Good luck on the problems, and if you want to see your name in print, get your answers in on time to the address written below. You'll also see the answers to the first mathematics corner and names of the students who correctly answered them. Answers to this week's problems should appear next week in the Avion.

Second Time Around

Write any three digit number. Now write a second time the same three digit number next to the original number to make a six digit number. Divide this six digit number by 13, then by 11 and lastly by 7. Bingo! You get your original number back. Investigate the mystery behind.

Submitted by:
Conway Tomlinson

On The Top Of The World



There is a large number of similar planes at airport A (see diagram). Each plane can travel a distance equal to half the circumference of the globe on a full tank of fuel. Any one of the planes can return to airport A if one plane instantly but must have enough fuel left over in order to make it back to airport A. The question is: What is the minimum number of planes needed so that one of the planes can circle the globe without stopping and all planes will fly safely at airport A?

Submitted by:
Prof. George Gerhart

Solutions From Oct 29, 1966

Riddle of Riddle

One can easily develop the general formula.

The number of ways = $2^{(n-2)}$

In this example $n=4$ = the number of distinct letters in ERAU. Therefore, the number of ways when $n=4$ is

$$2^{(4-2)} = 2^2 = 4$$

Correct Answers by: Heather Brown and Charles Shea

Green Green Grass

Area of the triangle = $\frac{1}{2}bh = \frac{1}{2}(100)(50/3)$

Area of the sector = $\frac{1}{2}\theta r^2 = \frac{1}{2}(60\pi)(50)^2$

DYNASTY

Empress Imelda V bought shoes at \$400 a pair, hats at \$500 each, dresses at \$4,000 each, and minks at \$5,000 each. She bought ten thousand items for Ten Million Dollars Cool. The number of dresses is twice the number of minks, and the empress buys minks always in multiples of hundred. How many of each kind did she buy?

Surf's Up

Submitted by Richard Swift

Based on an equation supplied by Mr. Glenn Greiner

Every true surfing enthusiast knows from experience that the following equation holds true:

$$(C_1 A_w A_o)^{-0.5} (C_2 V^2 A_o / W - N) = 1$$

Where C_1 = Coefficient of static friction between feet and board
 C_2 = Coefficient based on plane angle of board

A_w = Wetted area at speed (ft²)
 A_o = Original wetted area at standstill (ft²)
 V = Speed of board relative to water surface (ft/s)
 W = Weight of surfer (lb.)
 N = Ratio of board buoyancy to weight of surfer
 e = Euler's constant

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$$(C_1 A_w A_o)^{-0.5} (C_2 V^2 A_o / W - N) = 1$$

Where C_1 = Coefficient of static friction between feet and board
 C_2 = Coefficient based on plane angle and aspect ratio

A_w = Wetted area at speed (ft²)
 A_o = Original wetted area at standstill (ft²)

V = Speed of board relative to water surface (ft/s)

W = Weight of surfer (lb.)

N = Ratio of board buoyancy to weight of surfer

e = Euler's constant

Given that:

$C_1 = 0.152$
 $C_2 = 0.062$

$A_w = 3.5 \text{ ft}^2$
 $A_o = 5.2 \text{ ft}^2$

$V = 12 \text{ mph}$
 $W = 165 \text{ lb.}$

Find the buoyancy of the board.

Solutions

Send your Solutions on or before November 19, 1966

to: Mathematics Corner

Dr. Shrinivas S. Dalal

Mathematics Department

ERAU

Note: If you have some interesting or exciting ideas about mathematics, please send them to the above address. Your participation is highly appreciated.

I'm a Material Girl

Let X = number of earrings
 Y = number of rings
 Z = number of chains

$$\therefore X + Y + Z = 20$$

$X/2 + 2Y + 3Z = 20$

Solve these two equations by matrix method. You get

$$X = 14, Y = 5, and, Z = 1$$

Correct Answers by: Heather Brown, Becky Robertson, Charles Shea, Conway Tomlinson



This picture was taken on the Daytona Beach Campus. It is of something or someplace in plain view of the discerning eye. If you think you know what or where it is, you can win a free Subscription to the Avion. Entries must be placed in the contest box in the Avion office, and be received by Friday at 5 p.m. In case of multiple correct answers, a winner will be drawn by the Avion photo editor.

Our congratulations go out to this week's winner, Jerry Chanin, who correctly identified the location of the Oct. 29 Where am I photo, which was the chain link fence in front of the Engineering Building.



"In the Cockpit"
The Avion, Feb. 7, 1986

By Cam McQuaid
Cartoonist

Submitted by:
Conway Tomlinson

On The Top Of The World

A



There is a large number of similar planes at airport A (see diagram). Each plane can travel a distance equal to half the circumference of the globe on a full tank of fuel. Any one of the planes can refuel any other of the planes instantly but must have enough fuel left over in order to make it back to airport A. The question is: What is the minimum number of planes needed so that one of the planes can circle the globe without stopping and all planes wind up safely at airport A?

Submitted by:
Prof. George Gerhab

Given that:

$$C_1 = 0.152$$

$$C_2 = 0.062$$

$$A_W = 3.8 \text{ ft}^2$$

$$A_O = 5.2 \text{ ft}^2$$

$$V = 12 \text{ mph}$$

$$W = 165 \text{ lb.}$$

Find the buoyancy of the board.

Solutions

Send your Solutions on or before November 19, 1986

to: Mathematics Corner
Dr. Shrinivas S. Dalal
Mathematics Department
ERAU

Note: If you have some interesting or exciting ideas about mathematics, please send them to the above address. Your participation is highly appreciated.

Solutions From Oct 29, 1986

Riddle of Riddle

One can easily develop the general formula.

$$\text{The number of ways} = 2(2^n - 2)$$

In this example $n=4$ = the number of distinct letters in ERAU. Therefore, the number of ways when $n=4$ is

$$2^{2^4} - 2 = 28$$

Correct Answers by: Heather Brown and Charles Shea

Green Green Grass

$$\text{Area of the triangle} = \frac{1}{2}bh = \frac{1}{2}(100)(50\sqrt{3})$$

$$\text{Area of the sector} = \frac{1}{2}r^2\theta = \frac{1}{2}(50)^2(\pi/3)$$

$$\therefore \frac{\text{Area of the Sector}}{\text{Area of the Triangle}} = \frac{\pi}{6\sqrt{3}} = 0.30 = 30\%$$

Correct Answers by: Jim Leventis, Charles Shea, and Conway Tomlinson.

Note: Jim's two solutions, one using algebra and the other using calculus, are excellent.

I'm a Material Girl

Let X = number of earrings
 Y = number of rings
 Z = number of chains

$$\therefore X + Y + Z = 20$$

$$X/2 + 2Y + 3Z = 20$$

Solve these two equations by matrix method. You get

$$X = 14, Y = 5, \text{ and } Z = 1$$

Correct Answers by: Heather Brown, Becky Robertson, Charles Shea, Conway Tomlinson

AERO-PLANE IDENTIFICATION

Our congratulations to last week's winner, Gary Gladd who correctly identified the mystery aircraft as a Bell XP-83. Gary was the first person to correctly identify the aircraft, but thanks to all you others who also submitted your answers.

autos for sale

'77 FIREBIRD - Roto and looks good. P/B, PS, power windows, new transmission, AC, AM/FM stereo, new heater, new shocks, \$1700 o.b.o., call 800-23-6132.

'77 CAMARO - 6 cylinder, good condition, new engine, must sell. \$3000 contact 235-3306.

'76 FORD GRANADA - 4 door green, good car, no n.e. \$700 or any reasonable offer. Call Mike 785-4495.

'81 TOYOTA TERCEL - Aire, air, 11,000 miles. \$3000 call 235-2300.

'82 TOYOTA SR5 - Pickup truck with cap, great condition, 46,000 miles, many extras. Call 800-23-7875.

'73 TOYOTA PICKUP TRUCK - Great cond., 4 cylinder, 4 speed, excellent for work and fun for \$750. Call Francis 235-1299, negotiable.

'74 RED CHEV NOVA - High performance, engine and transmission 300HP. Have all new tires. A little rust, great condition. Must sell. \$1800 o.b.o., call 232-2277.

'93 RHD WAGON - New brakes, meticulous. Excellent basic transportation. 4 cyl. engine, runs great, needs oil. First 1000 miles is free. Call 800-23-6207.

'91 BUICK SKYLARK - 2dr., A/c, a/c, ps, no rust, very clean, runs great. \$1100 o.b.o. Linda at ext. 1000 or Jim 673-4661.

'78 CHEVY PICK UP - Fall tire, V8, auto trans., PS, PB, 63,000 original miles. New tires, runs super. \$1500 o.b.o. Linda ext. 1000 or Jim 673-4661.

'79 FORD 3/4 TON CARGO VAN - Excellent condition. \$3000 call 272-5433.

'75 CADILLAC CP DEVILLE - Good original condition. No rust, white leather interior, loaded, new tires, runs good. \$3200 cash or finance acceptable for trade or work. Call 800-23-6207.

'81 NISSAN 300 ZX - Sport coupe, AC, 5-speed, stereo cassette, new perf. type, hrs. 60,000 miles. Very good, economical car. \$2400 o.b.o. Call 800-23-6207, only or before 6:00 p.m. \$75-6511 or 232-0189.

SUPER VAN - '79 white Ford, new engine, 8 tires, low mileage, full conversion with 4 capsules seats. \$2600 call 258-0939.

ON TOYOTA - '78 blue corolla, good condition with AC, low mileage. \$1200 call 232-0939.

'81 JEEP CJ-5 - V8, 5sp, new tires, new clutch, chrome rims, custom bumper, full cage padded rollbars, fire extinguishers, stainless steel dash, 280 Z 2 door seats, 4 door top, new front end, new rear end, new top, good top, wheel bearing all replaced. New carpet, reved front suspension, new shocks, new tie rods, new alignment. All this for \$3,200. Call 234-0738 if you keep it.

'73 DATSUN 280Z - metallic blue, red, black interior, new original miles, runs great, runs smooth, needs oil. \$1200 contact Shave at 232-6304 or leave message at box 6357.

•cycles for sale

'75 YAMAHA XS 400 - Black and gold, runs good, includes a black full fairing, new helmet. Asking \$475 contact Dennis at 235-3701 or box 3395.

'80 HONDA XR 200 - Excellent condition. \$1700 call 232-4064.

'KAWASAKI KX 110 - In great condition looks sharp and runs good, black with chrome pipes, no rust. 2 year battery included. Asking \$175 contact Dennis at 235-3701 or box 3395.

'71 HONDA CT 90 TRAIL - 90 - Go's 50 mph, cheap transportation. \$150 or best offer call Sean at 232-1286 after 3 p.m.

'82 V-TWIN SABRE - Must sell to buy car. If interested call 232-4190. Price negotiable from \$1400.

'82 HONDA CM 250 - Bought new in '84. Good condition, reliable, runs great. 16,000 miles with 2 full sets bellows and soft-pac saddle bags. \$520 call 232-8189.

'91 KAWASAKI 650 CCR - Looks great, runs great, new seat. Only \$650 call anytime or leave message, 233-1917 box 237-2277.

miscellaneous for sale

FOR SALE - Nice dining room set with leaf and 4 chairs. \$750 negotiable. Call 235-9236 or 232-7333 and ask for Becky.

'86 SUZUKI GS-450ES - one of a kind black and red paint scheme. 4000 miles, 1 owner. Comes with 2 full-face helmets, and full cover with lock. Asking \$2000 negotiable for more info call John, anytime day or night 237-5640.

in 80/81 GM G-3500S - one of a kind black and red paint scheme, model 1, 1 owner. Comes with 2 full-face

'71 BAW RS25-1 - Black, very good condition. \$1200 or best offer. Call Sean 232-1286 after 3 p.m.

'83 KAWASAKI KZ 750 - Sport street bike, black stick shift, red wheels, miles unknown, runs great, new front end and spokes. Contact Dave rm. 234 Davis 11, \$1000 o.b.o. price negotiable.

FOR SALE - TI-55-II calculator. 112 functions, carrying case and manual. 4 memory keys, 10 digit display, 2 line display, 100 steps, 1000 memory. Contact Francis at 232-9655 or box 2647.

'90 KAWASAKI 440 JET SKI - with win and instruction on maintenance. \$1500 or best offer. Call 781-7631.

'84 INTERCEPTOR 2000 - 12,000 miles will sacrifice \$1600. Includes helmet and foam padded luggage rack. Contact Ray at box 3112 after 9 p.m. at 235-3605.

'75 RED MG MIDGET - Must Sell!! E condition with 100,000 miles in out, too much to live. \$3000 Roger 1-107 231-3511 nights.

'80 DODGE OMNI - AC, PS, PB, AM/FM stereo, auto, engine and body in great shape. \$1500 call George at 267-1857.

'77 INTERNATIONAL SCOUT II - 4WD, well maintained, dependable transportation. \$6000 call 788-7975.

'80 KAWASAKI 650 CTB - 2 helmets with cover also. \$1100 o.b.o. Call 787-3464 or box 4357 for info.

'80 KAWASAKI 750 LTD - Runs good, minor repair needed. \$3000 call 1521 or box 237-4904.

'81 SUZUKI 185CC - rebuilt engine, needs a little work on front wheel assembly and about \$20 in parts. Mansell \$3000 box 232-2277.

FOR SALE

FOR SALE - Nice dining room set with leaf and 4 chairs. \$750 negotiable. Call 235-9236 or 232-7333 and ask for Becky.

ALL TERRAIN MOUNTAIN BIKE (ATB) - Ross Motos Sales. Two months old. Cos \$344 seek for \$300 or best offer. Great bike, have book and life time warranty certificate. Contact A.J. box 2175.

FOR SALE - Scale equipment, excellent condition, 2 propane tanks, will sell separate tanks or entire sets. \$23-4054.

FOR SALE - REAL 144, solid gold necklace, 500 dollars, no initial investment \$500 value asking \$450. To inspect call Mike at 232-3029 or box 219.

FOR SALE - Decades grand mall will have these items: Sets Beta VCR, top of the line, 1000 hours, new, never used. Home video game, model 3200, includes 7 games and joysticks \$30. Black and white T.V., 15", old but works well \$300. Double cassette tape deck \$100. A Garfield standard rifle 7.62 mm. (30) E. condition \$750. Hammarby racetrack helmet \$100. Old 12 gauge shotgun \$100. Gun blaster, good condition \$20. Yamaha Midnight Special, black and gold, very good condition \$800. For more info, contact Bill 781-7210.

FOR SALE - King star wastewater, new, includes frame, header, mattress, liner. \$225 o.b.o. contact Brian Box 8103 at 235-3174.

FOR SALE - 12' portable pony trampoline, T.V. and stereo system. Asking \$1000 originally, selling for \$250. Contact Tajiye Monroe at box 5173 if interested.

MUST SELL - Living room set, couch, love seat, chair and ottoman, 2 end tables and coffee table. Asking \$374 call 781-4831 or box 7487.

FOR SALE - Beautiful gold nugget diamond set ring. The ring is made of 10k yellow gold and has a diamond center stone among many gold nuggets. \$250 value asking \$100. If interested contact Mike at 232-4564 or box 2119.

KITTENS - CFA registered, black Persian female, hypoallergenic, solid point male, both 10 weeks old, pet quality, temporary shots and good bloodlines. \$175 each. 787-7183 after 6 and weekends.

FOR SALE - Slippy baby on 70 percent woolens, solid oak book case waterbed. Includes header and siderails. Only 1 year, paid \$1500 asking \$500. Matching end table and a kitchen table with chairs.

FOR SALE - Fisher component system, phone/AM/FM dual cassette equalizer, 2 speakers, brand new \$175 contact Kit box 7779.

FOR SALE - Fisher component system, phone/AM/FM dual cassette equalizer, 2 speakers, brand new \$175 contact Kit box 7779.

FOR SALE - One large sofa \$350 and two single beds \$100. One bed fits under the other. A good space saver. If interested call Tim 231-2168 and ask for Tom at anytime during the day.

MUSICALS - DODD-FX80 compressor, for guitar or bass. \$35 or best offer. Contact Eric at box 280.

FOR SALE - One large sofa \$350 and two single beds \$100. One bed fits under the other. A good space saver. If interested call Tim 231-2168 and ask for Tom at anytime during the day.

DRUM SET - Premier 5-pc., great condition. \$600. Contact Sean box 7487.

'84 JET SKI - Excellent condition. Only used in fresh water for one summer. Call Eric at 239-8541.

CANON AE-1 PROGRAM 35MM CAMERA - Kodakavis portable refrigerator uses 12 vdc or 110 v.ac with converter. Also 12" XEROX mobile home 3 speed. Miles from camera to motor park. Call Nordic Inn 741-7397.

FONIX RADAR WARNING SYSTEM - \$70 or best offer. My longer board switch \$7-\$40 or best offer. Call Dan at 236-3834 or box 7514.

THURST - Presidential Washington Dollie. Laying down. 25th anniversary. \$180 must sell. Contact Robert A.J. at 231-2151 or box 7713.

SMITH CORONA TYPEWRITER - student, standard, 2 years old excellent condition, selling for \$10. Contact A.J. box 2175.

PROTECTION FROM POLICE RADAR - B.E.L. MICAO v. XNR-1 R 8345 long range, radar, tank road and track detector, electronic receiver. \$1000 originally, selling for \$250. Contact Tajiye Monroe at box 5173 if interested.

STEREO FOR SALE - Top of the line 1980 Alpine car stereo \$766. Dugout 1980 car stereo \$766. Dual cassette 1980 car stereo \$766. Both new, asking \$225 or best offer. Call John anytime 237-5410.

FOR SALE - 15' custom ventura trailer with trailer. \$700 or best offer. Contact 4231.

FOR SALE - Toshiba stereo receiver 2600. Reliable stereo 175W THX rated. \$75 for the pair. Box 2321.

FOR SALE - 18' light helmets and 02. All light helmets or Navy issued in 78. \$100 each. If interested call 237-2168 and ask for Tom at anytime during the day.

MUSICIAN - DODD-FX80 compressor, for guitar or bass. \$35 or best offer. Contact Eric at box 280.

FOR SALE - One large sofa \$350 and two single beds \$100. One bed fits under the other. A good space saver. If interested call Tim 231-2168 and ask for Tom at anytime during the day.

IMMEDIATE OPENING for sales positions takes top quality natural products and start your own business. The #1 year old company is Forever Living Products Inc. Call (904) 672-5050 for opportunities and details.

MUST SELL - Set of 1 bed sofa and 2 bed chairs very functional and less for only \$60. A black Reclining Bear & speed, excellent condition. \$100. A reclining chair and ottoman. \$100. A black Reclining Bear & speed, excellent condition. \$100. A reclining chair and ottoman. \$100. Nordica Inn 741-7397.

FOR SALE - 3 rail motorcycle trailer heavy duty, good condition. \$225 or best offer. Call Sean from 3 pm to 2pm-12:30pm.

FOR SALE - Fully built 11' frame complete with 10' awning, white fiberglass foliage with balsa wings covered with transparent orange. Perfect condition. \$1000. Contact Kurt at 767-6150 or box 5191.

FOR SALE - Push 12 speed bicycle. Araya wheels, continental tires, women's group, van marco saddle, quick disconnect levers, avenir seat, front and rear suspension, front and rear disc brakes. \$100. Call with Mac letters. Excellent shape. \$400 invested for \$200. Contact Kurt at 767-6150 or box 5191.

miscellaneous

NEED LIVING ROOM FURNITURE - All to fit. A complete three piece set including sofa, chair and coffee table which also has sets on it's own. All for \$250. Call 235-1230 or 10-12 pm, T.R. 8-12 pm at 235-5943.

NIRS - NAG'S FRENCH CLASS - \$7 an hour, quick results, choose your hours and days 238-9901. The right pronunciation is the most important.

FLIGHT INSTRUCTION - Flight and ground school instruction for private pilot, commercial pilot, instrument flight review and check ride. Very patient with first time students. Call 237-2168 and ask for Diane to find you a pilot in the evenings as 787-7162.

FAA WRITERS - Monday & Friday evenings 7-9 pm. Maintenance training in a benchrest. \$12.95, instruction, equipment, \$10 an hour includes fuel and instructor, call Detland Aviation 1-734-1333.

IMMEDIATE OPENING for sales positions takes top quality natural products and start your own business. The #1 year old company is Forever Living Products Inc. Call (904) 672-5050 for opportunities and details.

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WANT TO LEARN TO FLY? — Professional flight training available immediately. No waiting on a reasonable rate. Call 761-4887 and ask for Tod.

WANTED — Video tape of the Blue Angels to the music of Van Halen. Dress, VHS, call 573-5526. X-234-825 or 778-1185 after 6pm.

FOR SALE — Twin bed, broom closet and vanity. Very good condition, \$150 each. Call 573-5526. X-234-825 or 778-1185 after 6pm.

Flight International has limited openings for experienced FAA certified flight instructors. Applications must have at least 2 yrs experience & pilot 1000 total flight hrs. and 50 hrs. instrument given. Major compensation benefits available. Excellent opportunity for advancement and reassignment to other FSI advanced Turboprop and Turbogo T-38 learning centers. If career-oriented, call 573-5526. Send resume to: Flight International, P.O. Box 2708, Vero Beach, FL 32961. Or phone (305)567-5178.

FLIGHT INSTRUCTION — Private pilot, commercial and multi-engine flight instruction. Standard flight reviews and high performance checkouts. Large selection of aircraft available. Contact Greg Peart at 761-4887.

EPCOT AND DISNEY WORLD — 1/2 price tickets, round trip airfares, no tricks, no fees, no surcharges and Sunday only. Groups of 3 or 4. Contact Dan box 5022.

Accommodations

BACHELORENEAR BELLEAIR — Ig. 3 bdrm home, \$500 month. 1/3 bath well furnished. Large yard, children/all welcome. Call 778-1175 for take out service.

TWO FEMALE ROOMMATES NEEDED — To share 2 bedrooms, 2 bath studio with pool, sauna, tennis, 10110 250 ft. dock and security garage. Only \$150 per month plus \$100 security deposit. Call 573-8430 between 6 am - 12 or 2 pm - 6 am to leave message for Mary. Great place.

ROOMMATE WANTED — Male or female to share spacious bedroom with fireplace and Jacuzzi. Located brick side, one block from Super-X (Oceanside). Must be male. \$1200 month plus 1/3 utilities. Call 677-9477 or leave message on bus 1017.

MALE OR FEMALE ROOMMATED NEEDED IMMEDIATELY — For a very nice room in a very nice house. Located near neighborhood, 3 miles from school. \$225/month plus 1/3 utilities. Call 573-8430.

ROOMMATE WANTED — One room furnished with washer and desk. 1 1/2 miles to school (2 min DRIVE or 10 min walk). \$150 month plus 1/3 utilities included. Due 12-15-86. Call Scott at 252-7863 or bus 4162.

ROOM AVAILABLE — Clean, quiet, beautiful room with bath. \$100 includes utilities. Call 573-5526. X-234-825 or 778-1185 after 6pm.

WANTED — MA 112 roomer. Call 573-3610 ask for Bob or bus 7255.

WANTED — We need a ride to the David Roth concert Nov. 13 in Lakewood. We 3 are willing to share expenses. Call 778-1185 or bus. Dave or Billy Bob.

POSTPONED until Spring

ROOMMATE WANTED — 2 bedroom, 1 bath furnished apartment. Located 4 miles from ERAU in good bungalow location. \$500 month plus \$100 security deposit. Non-smokers please! \$200 month plus 1/3 utilities. No pets or lease required. Call 254-2710.

FAIRFAIR ROOMMATE WANTED — To share 3 bedroom, 2 bath, apt only 4 miles from school. \$150 per month plus \$100 security deposit. Call 573-8430 between 6 am - 12 or 2 pm - 6 am to leave message for Mary. Great place.

MALE COMPANION — to share I room apartment. Must be a clean person. Contact Jeff Anthony at bus 1011.

WANTED — Someone with knowledge of HIP-13C financial calculator... will pay top of \$100 for it. Contact Mark at 788-3556 or bus. 3690.

WANTED — Video tape of the Blue Angels to the music of Van Halen. Dress, VHS, call 573-5526. X-234-825 or 778-1185 after 6pm.

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WANTED — We need a ride to

Saturday and Sunday, Nov. 29 and 30.....

Regular Hours

PC Lab

The IBM PC Lab will be closed Thanksgiving day but will be open regular hours Friday, Saturday and Sunday.

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RESTAURANT AND
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* New England	at LA Rams
* Kansas City	at Denver *
Indianapolis	at NY Jets *
* Dallas	at San Diego
* Cleveland	at LA Raiders *

Dash picks * The Greek picks *

TIEBREAKER: Predict the score of any one game above. List teams with score.NAME:
ERAU BOX:

To enter this weeks Avion football pool, cut out this entry form and circle who you think will win the matchups above.

Deadline for entries will be Friday, Nov. 14, at 3 p.m. Entries can be dropped in the campus mail slot or brought to the Avion Sports Box.

A winner will be selected by the next issue. Winners are selected on the basis of the number of correct answers made on the entry form. Should a tie occur, the winner will be selected by the most accurate prediction of any game listed. For instance, a person who guessed a score of 24-26, would have a total of 44 points. If the game score was 27-24 (a total of 51 points), a difference of 7 points exists. The closest score will be considered the prediction which comes the closest to both teams points.

The winner will receive "The Avion Guide to Campus Life at ERAU" by Bill Myers.

One entry per person. Remember to select a winner for every game.

This weeks winner is Tom Balbo with 10 out of 13 correct

Lacrosse Club to do battle in Gainsville

By Eric White
President

The Lacrosse club will be attending the second annual Memorial Tournament, in Gainesville, Florida. The tournament will consist of six teams: Florida State, University of Florida, University of South Florida, Auburn, Georgia Tech, and Embry-Riddle University.

The games will be played in Jumbo field lacrosse; there are games that have only two halves and only 12 minutes per half. A regular game has four, fifteen minute quarters. Our team attended this tournament last year, finishing with a record after two days of battle. This tournament, in which John Kirk won the MVP award, (I don't know why he won't play this year) was probably the best road trip we had last year; just ask Cam he'll tell you.

This years team, which started practicing late Sept., has come a long way. With an addition of a new goalie Brian McCarthy and returning outstanding goalie Scott Schellinger (who says in the mean time, he will have no problem keeping the ball out of our goal). Our strongest point, the defense, has four returning starters and two outstanding new additions Rob and Mike D. Most



Avion photo
The ERAU Lacrosse club is getting ready for a big season. The season opens in Jan.

of our new players are occupying the midfield spot. These new people have come a long way with a lot of hard work on their part.

The team really misses Jim "Boog" Powell, who along with returning highest goal scores John Carbone, controlled so many games last year. This year a lot of that pressure will depend

on our almost brand new attack consisting of Rick, Andy, Regie, John and Eric.

The tournament trip is fully paid for by the club, much of it from our famous doughnut sales. John Carbone, controlled so many games last year. This year a lot of that pressure will depend

blanket in case you don't get the luxury of a bed. Those who still owe the club \$10 in dues will have to pay up before going.

Our official season will be starting Jan. 13 with a trip to Florida State, and end with the championship, twelve games later, in the beginning of April.

ARIANE

(continued from page 5)

Ariane 4 development began in 1982, and its first launch is now scheduled for June, 1987.

The Ariane 4 system incorporates another stretch of its first stage to carry more propellants, strengthened second and third stages similar to the Ariane 2 and 3, and an array of solid or liquid booster combinations to be added to the first stage.

The booster can incorporate 2

to 4 liquid or solid strap on motors giving the booster the ability to place between 4190 and 9260 pounds into geostationary transfer orbit.

This choice of Ariane 4 configurations provides customers with exceptional flexibility, making it possible to adjust launcher performance to individual payloads, and to maintain a high load factor with consequent

reduction of launch costs, according to an ArianeSpace release.

An Ariane 5 booster is under development which is powerful enough to put the European Space Agency's manned space shuttle Hermes into orbit. Other missions for the Ariane 5 will include placing various unmanned platforms and satellites into Earth orbit. The Ariane 5's first launch is due in the 1990's.

Deadlines for all submissions to the Avion are Tuesday at 5:00 pm (a week and one daybefore publication). Deadlines for On-disk submissions is extended to the Wednesday prior to publication at 5:00 pm.

ner will be selected by the most accurate prediction of any game. This weeks winner is Tom Balbo with 10 out of 13 correct

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As always, there is NEVER an admission fee for Riddle students! *

MONDAY - ATTENTION DAYTONA'S HOTTEST DANCERS. 701 SOUTH IS LOOKING FOR YOUR MONDAY NIGHT IS HAWAIIAN TROPIC DANCE CONTEST NIGHT WITH FREE DRINKS FROM 9PM TO 12AM.

TUESDAY - COLLEGE, FRAT AND NEW AGE MUSIC NIGHT! FREE ERAU IRIS BEER MUG AT THE DOOR TO ALL STUDENTS WITH VALID ERAU ID! BRING MUG WITH YOU ANY NIGHT AND FILL IT WITH HEINEKEN DRAFT FOR A BUCK!

WEDNESDAY - 701 SOUTH PRESENTS MULTIPLE SCLEROSIS ROCK-A-LIKE NIGHT! LIP SYNC YOUR WAY TO STARDOM AND CASH PRIZES WHILE HELPING FIGHT MULTIPLE SCLEROSIS. LADIES DRINK FREE FROM 9PM TO 1:30PM.

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