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becoming excessive to an in tolerable point. The cost of learning to fly or keep an air-plane flying is already high enough. You CAN do some-thing to stop this legislation

from passing. Send your com

ments IN DUPLICATE to: ments IN DUPLICATE to: Federal Aviation Administra-tion, Office of the Chief Coun-sel, Attn: Rules Docket (ACC-24), Docket No. 17859, 800 Independence Ave. S.W., Wash-ington, D.C. 20591.

Any comments received by July 19, 1978 will be consider-

ed but don't delay; write now. This can only be stopped if you care enough to write! Remember it's your money that

they want! Don't let them have

it without a fight!!

ME AVION

THE AWARD-WINNING NEWSPAPER OF COLLEGE AVIATION

EMBRY-RIDDLE AERONAUTICAL UNIVERSIT

May 24, 1978

FAA: AFTER YOUR MONEY

By Jonathan Bailey As anyone can see the cost of Lecoming certified is

The F.A.A. is after your money again; not just pilot's money but maintenance technician's money also. The F.A.A has just issued a Notice of Proposed Rule Making pertaining to fees for airmen and maintenance of the pilot of the tenance technician certification tests.

Some of the largest fees proposed are aimed towards mechanics. For example, the Airframe Mechanics practical test would cost \$354-50 and that is Airframe ONLY. Power plant tests would cost a fur-ther \$267.00 and should one fail the test on the first try one must pay again for a retest

For each written test a mechanic must pay \$32.50 and airmen will pay \$17.00 and for the first time this includes private pilot candi-

The following is a list of it without a fightest fees for maintenance technicians and airmen.

MAIN.ENANCE TECHNICIANS



ERAU HOLDS 30th DAYTONA BEACH GRADUATION

Embry-Riddle Aeronautical University's 30th Daytona Beach graduation was held at 9 a.m. April 22. Commencement ceremonies were held outside, adjacent to the Gill Robb Wilson Aeronautical Sci-ence Center on the main cam-

total of 201 persons, ling six women and 13 including six women

Master's degree candidates from the University's Miami Graduate Center, received degrees.

Dr. Tine W. Davis . longtime or. time W. Davis, longtime associate of the University and a member of its Board of Trustees was the guest speaker. He is President of Winn-Dixie

of Montgomery, Inc. operator of Winn-Dixie supermarkets. A reception in the E-RAU University Center followed.

Somewhere in this paper is someone's social security numher. If you find your number in this issue you are the winner of a free Miller T-Shirt, comp-liments of S.R.Perrott, Inc. Miller Distributers.

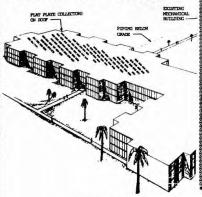
If your number appears, pick up your T-Shirt in the Avion Office.

W.E.R.U Radio Station Meeting CPR Thursday, May 25, 1978 at 5:00 PM. Open to any student.

DISCOUNT THEATRE

TICKETS AVAILABLE TICKETS AVAILABLE

The Student Activities Office is offering Discount Tickets
for the ABC Theatres for the
benefit of the Will Rogers
Memorial Fund for Medical
Research. The tickets will be
on sale for \$2.00 each and
can be used at any ABC Theatre for any movie. The ABC
Theatres in the Daytona Beach area are the Daytona Theatre on 176 North Beach Street and the Mall 1 and 2 Thea-tres located in the Sunshine Mall Shopping Center in South Daytona. The tickets are available to all students, faculty



By Jonathan Bailey

Embry-Riddle joined the ranks of the energy conscious when installation of a solar hot water unit was completed

hot water unit was completed two months ago.

The system was paid for by a grant of \$89,700 provided by the Federal Department of Housing and Urban Develop-ment. It consists of a group of conshipment that hotel two of one-hundred flat-plate type or on-nunared nat-plate type collectors arranged on the dorm roof facing the south. Water is heate in the collectors and then circuiated to a 3,000 gallon storage tank, located next to the tennis court, from which it is tapped off as need-ed. The tank will store water at 130-160 degrees for up to two days. The solar system is

connected to the conventional, gas heating system in case there should be an extended period of cloudy

weather.

As the system has only been in operation two months figures are available on no figures are available on actual energy savings as yet. It is anticipated, however, that the system will provide 90% of the dorm's hot water and so save about 30% of the regular heating bill.

The system took nine months to design and install. The designers were Stottler and Stagg, Inc. and installa-tion was completed by Carter D.W. Browning Electric end

VARIEZE: POISED FOR FLIGHT

By Jonathan Bailey News Editor

Mr. Bill Cook's Varieze is ready to take to the air after many long months of hard

work.

For those of you who missed last trimester's article on the Varieze, Bill Cook is a local resident who has built a rather unconventional homebuilt airplane made from fiberaless and foam, powered by a 85-horsepower Continental engine and the tail is located in the front. This "tail" is known as a canard and this arrangement makes stelling virtually impossible as the canard stalls before the wing causing the before the wing causing the nose to come down and air-speed to build up again and so preventing the wing from stalling.

engine burns three The engine burns three gallons per hour at a true Air Speed of close to 200 miles per hour. The airplane seats two in surprising comfort and has dual side-stick controls but only one set of rudge nedls. of rudder pedals.

At present Cook is busy At present Cook is buty-doing high-speed taxi tests at Deland Airport and working out the bugs of which there seem to be very few. The F.A.A. are expected within a week or two to inspect the a week or two to inspect the airplane and certify it air-worthy at which time the AVION hopes to report on what it is like to fly in a Var-ieze so keep your eyes open



ERAU GETS \$50,000 GRANT FROM CESSNA

By Jonathan Bailey

Cessna Aircraft Company,
Inc. recently announced that
it was making a grant of
\$\$50,000 to be put towards
the total cost of the new Engineering Science Building presently being built next tot
Maintenance Technology comroles.

Cessna president, Russ Meyer, announced the grant in a telegram to President Hunt. The grant will be paid over a 5-year period at a rate of \$10,000 per annum.

Site clearing for the new building began on May 1st after the construction contract was signed on April 27th.Com-

pletion date is anticipated by

August 13th.

When completed the new building will house three windbuilding will house three wind-tunnels including a smoke tun-nel, a low-speed sonic tunnel and a high speed supersonic tunnel, a structures lab, a ma-teriel lab and a forty-station aircraft design lab on the first floor and 15 offices for 30 faculty members on the se-cond floor.

cond floor.

The building plans include parking for 300 cars. The construction contract is being carried out by the Dunlop Construction Company of Daylone Reach. tona Beach.

Schedule for Course **Equivalency Examinations**

Summer A & B

College of Aeronautical Studies July 28 August 13 August 10 July 25 Aeronautical Engineering June 8 Aviation Management
Computer Technology
Humanities and Social Science
Mathematics and Physical Science August 6

College of Aviation Techology

		a provide
Aeronautical Science	May 31	July 26
Avionics and Electronics	May 26	July 21
Aviation Maintenance Technology	May 26	July 21

The procedure for making application to take the course equiency examination is:

representation is:

Fill out an application form at the Records Office and pay the fee of \$45 at the Cashier's Office.

Take the application form to the Division Chairman in whose division the course is offered for which the examination is to be taken three weeksprior to the date of the examination is to be taken three weeksprior to the date of the examination. A course outline and textbook references will be provided for each course in which an examination is to be taken.

Make an application with the Division Chairman for the exact time and place to take the examination.

After the examination is graded, the person who took the examination will be notified in writing whether he successfully passed the exam. If he passed the examination, he will be given the credit value, but will not be given a grade. The student's academic record in the Records Office will reflect "Credit by Examination" for the course.

Only one examination attempt shall be allowed for each

Only one examination attempt shall be allowed for each course. If the examination is not passed, the student must enroll in the course and successfully complete it in order to receive could.

THE RIDDLER???



No one answered the Riddle's easy question last week. The answer is Boeing offers nine versions of the 747 for

This week's Trivia question s very easy. It goes like this:

The Riddler went to the bank and wrote a check. The bank made an error however, and gave him dollars for cents, and gave him dollars for cents, and cents for dollars. When he got home he discovered he had exactly twice the amount he had written the check for. He had no cash prior to writing the check. How much was the check written for. Good

sale. The winner of this week's
However we did want to Riddler will receive a free
mention that the winner of haircut from The Hanger,
the last trivia question of the E-RAU's Heirstyling and
Spring Trimester was Tim Rice Haircutting shep. nine versions of the 747 for sale.

However we did want to Riddler will receive a free mention that the winner of haircut from The Hanger, the last trivia question of the E-RAU's Heirstyling and

5 manual INSIDE CLASSIFIEDS CLUB NEWS OPINION 2 SPORTS 5

Luck!!

DPINIONS

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



By Dick Butler AVION Editor

Did you hear about John? He finished up his last trimester in the spring and showed up a graduation only to find out that he was still one class short. Fortunately, this never happened. My point in bringing it out is there is a real possibility that it could happen. How many of you are getting down to your last trimester and have not been over and spent some time with a counselor to verify that you havn't forgotten anything? I Graduate in June and went over shortly before the A term began and discovered that I needed one more class than I thought I did. It would be unfortunate to have to spend another trimester here for

one class.

I think, in looking back over my college career, that one of the best pieces of advice I could give the new student would be to let the counselors help you to plan your education. Perhaps by taking certain courses you might, be able to qualify for an Associates Degree in your minor. You are paying for this service, it would be in your best interests to use it.

While we are on the subject, let me address a question to the Administration. Would it not significantly reduce the number of course substitutions and help to standardize the curriculum if the school were to require a student sensed a science with the sense of the course was the substitutions.

if the school were to require a student spend a session with his advisor or a counselor once or twice a year?

Dik Buth

FEEDBACK:

In order to provide Em bry-Riddle students, faculty and staff with up-to-date in-formation regarding staff with up-to-date in-ation regarding the Univer-s growth and development, AVION will print ques-The tions and answers relevant to E-RAU operations, and planning activities. If you h ning activities. If you have a question, you may present it in person at the University Center Common Purpose Room near the main switchboard, on any Thursday from 8 to 9 a.m. and from 4 to 5 p.m. Embry-Riddle Marketing & Development representatives will be on hand during these times velopment representatives will be on hand during these times for personal discus ion. Or visit for personal discussion. Or visit or write to Marketing & Deve-lopment, Administration Build-ing, any time Monday through Friday, 8 a.m. to 5 p.m. Please call ext. 33, 334,325 to arrange

STUDENT'S QUESTION OR

WHY DO E-RAU SECURITY STAFF MEMBERS ACT LIKE PRISON GUARDS? WE GET NO SMILES AND NO HELP FROM THEM? 374-66-6636

ADMIN, ANSWER OR

ADMIN. ANSWER OR COMMENT John A. Fidel, Embry-Riddle Director of Administration, had this to say about the Security

Positive steps have been Positive steps have been taken to improve the efficiency, attitude and image of the former Security Department. This department, as it previously existed, was not in tune with the philosophy of Embry-Riddle. It was evident that the department not only must be-come more efficient, but also become more responsive to the needs of the students. In addition, it was essential that in carrying out their day to day services, the Security per-sonnel better project the image and standards of the University students, staff and the

The department was re-assigned to function within the Physical Plant management structure. This is organizationally consistant with universities of our size, and with our efforts to ensure continuity of services. The name was changed to Department of Safety, with

to Department of Satesy, win-security and traffic recognized as inbrrent parts of "safety." An in-house and area adver-tisement search was made for a Director of the new department who had the qualities and man-agement skills necessary to imment, manage and develop

ur new Safety concept and program. Mr. Philip Bird was finally selected for the position. Mr. Bird, a graduate of Stetson University, with a B.S. degree in Business Administration, brings to Embry-Riddle a unique combination of administrative skills and experience, which includes an awareness of

individual needs and law en-

in overall numbers, our in overall numbers, our Safety force has been reduced. This has been compensated for by an all-out effort to increase the efficiency and upgrade the professional skills of its personnel. We are still in the early stages of our operation unfer the new Safety concept. Students are encouraged to make recommendations or discuss any difficulties they may be experiencing in regard to the Safety program with Mr. Bird. Be assured you will find him both receptive and responsive.

3

ROVING® REPORTER

Keith Kollarik

The AVION just published the results of a survey conduct-ed by Marketing and Develop-ment. One section of that survey dealt with student com-ment on various things that have room for improvement at the school. The AVION's Roving Reporter question this

week is:

If you could take President Hunt's place for one day what would be the first thing you would change for the good of the school?



and proficiency are de creasing due to unnecessary overload, not due to the in-

Klyde Morris



3."Establish major student en-gineering projects. Perhaps ex-periment with modifications on some of our aircraft that have



4."Decrease the amount of mo

8."I would hire an efficience expert. I feel that the employe turn over rate is astronomical There must be a better way.' Mike Jaworski, Aviation Mang



7."I would recommend that the expansion plans be accel-erated to accomodate the rapidincre

6."Build a gym so b."Build a gym so we could have some sort of decent athletic program." Leona Jordon, Engineering

the tuition we pay is

Phil Perry, Maint Manage

going.



money into the ng department, in-f the Flight Line." Oz Alfert, Engineering

IS CO-OPING FOR YOU?

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- TRIMESTER AT E-RAU

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- POTENTIAL DEGREE CRED!TS
- TEST CAREER GOALS
- BRIDGE-THE-GAP BETWEEN STUDENT AND WORKING WORLDS

APPLY NOW COOPERATIVE EDUCATION OFFICE UNIVERSITY CENTER

- * WARREN A. MESSNER, DIRECTOR
- ROBERT BYER CO-OP COORDINATOR **EXTENSION 302/303**

NOTE: STUDENTS WHO ALREADY APPLIED FOR THE CO-OP PROGRAM SHOULD COME AND UPDATE YOUR APPLICATIONS.

the avion staff

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1."Decrease total number of students. Graduates are increas-ing while safety, professional-

YA Know, Since I Started Flying these 310's, I look at the otta

guys with their 172's om 20's and I feel, ... Sort of ..., sort of.



heen donated to the Engineer-ing Department." Hal Scripka, Engineer



dorm."

Carlos Moreno, Maint. Tech





TAKE



TIME **OUT**

Since this weekend is a holiday weekend, and there are no classes on Monday, it might be a good idea to plan out your free time to enjoy it to the max!

Here's some up and coming events and some personal recommendations for this weekend and the near future!

Beach and beer is always good, but for a change of pace...

P.S. BRING YOUR IDEAS UP TO THE AVION OFFICE.

8 p.m., Robert Palmer will be rockin' in concert at the Orlande Jai-Alai Pronton. Al-so appearing is the Pousette-Dart Band and Henry Paul. Tickets are \$6 at the door or you can buy them in advance.

. .The Student Government Association has scheduled several very good and very free movies for the summer trimester. Saturday, May 27, will feature the highly acclaimed and exciting movie "Mara-thon Man" starring Dustin Hoffman. The schedule for the rest of the summer is as fol-

Death Wish J ne 2 June 16 Chinatown 3 Days of the Condor Once Upon a Time in the West June 27

July 14 Fear is the Key Islands in the Stream July 28

By Gail Tworek

inowa about the Magic Kingdom in Dianey World, a Memorial Day might be well-spent splashing around River Country. For \$5.75 you can spend the day splashing around the beaches, pools, and the 260 foot water slide. This price also includes a boas ride over to Discovery Island, a tropical paradise of birds and trees that I recommend everyone see while they are at Disney-see while they are at Disneycal paradise of birds and trees that I recommend everyone see while they are at Disney-World. And for the evening perhaps you might enjoy a dinner of fried chicken and B-Q ribs along with the enjoyment of the down-home, fort-stomping "Hoop-Dee-Doo Musical Revue." Sounds like fun!!

. . Walt Disney World is al-ways a good place to go to enjoy your free time, but, a special evening is coming up in the near future. On June 2 the Magic Kingdom will come alive with a disco extravagan:

alive with a disco extravagamazwish a disco extravagamazWish-known recording artists such as "The Tramps"
(Disco Inferno), "BT Express"
and Peter Brown, will perform
and there will be dancing
threughout the theme park.
A single price ticket, \$7.95
in advance; \$8.95 at the gate
if available, entitles you to
unlimited use of the rides in
the theme park and its transportation from 9 p.m. to
1:30 a.m. There will also be
a fireworks display at 10
p.m. \$6, for not much more
than the price of a concert
ticket, you can see the great
attractions of Disneyworld tool
in the Daytona area, tickets In the Daytona area, tickets are available at Sears stores.

TOP BRITISH EXECUTIVE VISITS RIDDLE CAMPUS

At the invitation of Embry-Riddle Aeronautical University, Mr. Grant Lockhart, Britis Leyland's Regional Industrial Relations Director of England and Wales, agreed to speak to management students at the Upper Heyford, England, E-RAU Extension Campus. Mr. Lockhart's responsibilities in high level management

ties in high level management span 14 locations and 35,000 employees, making him an ideal choice to explain some of the personnel problems facing management in a large, modern and highly complex organiza-

Mr. Lockhart talked to the Mr. Lockhart talked to the class and students from City Colleges of Chicago and several base officials for two hours. He discussed such topics as collective bargaining, employee relations, grievance procedures and wage structures.

Mr. Charles Miller, Management instructor for the class.

ment instructor for the class, and Mr. Michael Casatelli, E-RAU's area coordinator, organized Mr. Lockhart'sapp



HELP GIVE VOLUSIA COUNTY'S SLOTH A HOME

HE HASN'T HAD ONE IN 150,000 YEARS

Your dollars will build

exciting exhibit wing at The Museum of Arts and Sciences in Daytona Beach

in Daytona Beach.

To help get those dollars,
the Junior Service League of
Daytona Beach, Inc., is sponsoring a SLOTH JOGGERWALKERRUN -ATHON, on
Saturday, June 3, 1978 from
9:00 a.m. - 4:00 p.m. on the
beach - on 1 20 mile stretch.
Sponsori must be signed
up to pledge money for each
mile you participate in the

mile you participate in the -ATHON. For further information contact the Museum at 255-0285.

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CORRECTIONS IN LAST

WEEK'S AVION

In the Media Center Se-curity System story last week a couple errors were made that need correction. First The radar units at the airport were blocking the pick-up sys-tem when the unit was in-stalled in the library, not while it was in transit. And the water fountain which was also causing the unit to not nick up book signals was removed, not relocated.

New filters were put on the system and it is now working properly.

Also, the young woman featured in the picture of the Security System is Gina Gris-afi, a student assistant in the library, sorry, Gina.

BEER PIZZA 1699 S. RIDGEWOOD AVE. SO. DAYTONA 767-9198

'AFTERNOON DELIGHT - BEAT THE CLOCK'

1 TO A P.M. ON THRU FRI.



DRAFT BEER STARTS AT

OUTDOOR BEER GARDEN NEXT DOOR TO COIN LAUNDRY & "CYCLE GOODIES"

"SOMETHING TO DEPEND ON"

For a view of God's law as something practical, unchanging, and available to help in every situation, plan to attend this

FREE LECTURE ON

CHRISTIAN SCIENCE

Daytona Beach Community College Humanities Auditorium econd Ave. & White St.)

8:00 p.m. Tues., May 30

(Mark it on your calendar!)

INTERNATIONAL

LIBYA: An Ancient And Modern Civilization

Libya is one of the Arab countries in the middle east countries in the middle east located in the north of Africa. Egypt is on the eastern border, and the Mediterranean Sea is north of Libya. Tunnis and Algeria form the western border; Chad, Niger and Sudan form the southern border. The population of Libya is nearly 3 million. The area is

2½ times the size of the state of Texas. The capitol of Libya is Tripoli. The other two major cities in Libya are Benghazi and Sebha. Most of the people live by the coastal strip. Most of the country is desert, which is about 75% of the total area. The Ample name for the The Arabic name desert is Sahare. for the

The major religion is Islam.
Almost all Libyans are Muslims. Our religion, Islam, is based on the Koran, which includes the original Old and

New Testament. We believe in New Testament. We believe in all the old prophets, messen-gers of God, Moses, Jesus Christ, and Mohamed. We see Jesus Christ and Mohamed as equal messengers of God with Mohamed only being the later messenger of God. We, the Muslims, the Christians, and the Jews all worship the same God.

Our national language is Arabic. This past year our National People Congress added the Arabic word Jamahiria to our national name which means government of the people, by the people, and for the people.

Gar recorded history goes back over 4,000 years. Many of the antiquities are still standing. Libya's archaeological cities are unmatched all over the world. They include ancient Greek and Roman theaters, baths, roads and buildings.

They are very interesting for the average tourist to see.

Our major export is oil. About 11% is exported to the United States, and other major oil export countries are Japan and West Germany. With the oil money we are also developing new industry, agriculture, and education. and education.
The education in Libya

plays a big role in our society. We have over 700,000 students going to school in Libya from elementary to secondary through university levels. There are about 3,000 Libyan students taking their education in the United States in different

majors.

The Libyan students at Embry-Riddle take the friendship you have extended to us back to Libya. We hope you will visit our country so that we can return the hospitality you have shown us.

COMING UP NEXT.

COMING UP NEXT: MAURITANIA.



T WA! ONE OF THOJE CLA!/ROOM ROMANCE)



DO NOT NOT PAS



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1977 PIPER WARRIORS - IFR

DAYTONA REGIONAL AIRPORT

1 - 1978 PIPER WARRIOR II 1 - 1978 PIPER ARROW III - 1FR - AIR CONDITIONED 2 - 1977 PIPER TURBO ARROW III - IFR 1 - 1977 PIPER LANCE - IFR

CIVIL AIR PATROL MARKS 36 YEARS OF SERVICE

If you crash - land in your small private plane (or a large one, either), get lost while hunt-ing in some mountain wilderor your child wanders away from a vacation camp, who will come looking for you

-or nim?

Well, you answer, lots of people – the police, local volunteers, and, er, well, lots of people

Chances are that among the searchers will be the dedicated members of Civil Air Patrol (CAP), the official civilian auxiliary of the United States Air Force which celebrated its 36th anniversary last year.

They probably will be up in the sky ir. small airplanes, look-ing for you. They will also be part of the ground search teams couring the

uring the countrys.de.

Each year, Civil Air Patrol

ots and observers, assisted by

res of ground team mem
s, fly three out of every four flying hours spent in the United States on search and rescue efforts which the Air Porce Rescue and Coordination Center (AFRCC) directs.

They have been performing these aerial search and rescue operations - a lot more human-itarian efforts - since the dark

CAP was established on Dec. CAP was established on Dec.

1, 1941, one week before the
Japanese attack on Pearl Harbor. The organization was the
result of worry and efforts on
the part of hundreds of aviation-minded private citizens
who could foresee war coming and wanted to contribute their aircraft and efforts in the na-tion's civilian defense efforts. During the war, its members

New patrol missions off the Atlantic and Gulf Coasts, looking for enemy submarines; con-ducted border patrol duty along the Mexican border; acted as aerial couriers carrying mail, ight cargo and passengers, thus saving the time and expense of military planes; towed tar-gets for aerial gunnery prac-tice; and flew hundreds of aerial search missions.

aenai search missions.

In 1946, rather than see such a useful organization die,
Congress chartered Civil Air
Patrol as a non-profit, humanl'atrol as a non-profit, human-itarian corporation whose members would be all volun-teers. In 1948, Congress made Civil Air Patrol an official auxiliary of the Air Force author-ity to habit to author-ity to habit to available to the con-lity to habit to available to the con-traction of t ity to help it conduct its ac-tivities and lend it a degree

In the first 10 months of this year, the men and women of Civil Air Patrol have conducted 695 emergency service operations (missions). This is operations (missions). This is one higher than the 694 mis-sions recorded in all of 1975, the highest figure in recent

No one knows what is the record number of searches or lives saved for the war years and the earlier postwar years since no official records exist for those years which are comparable to those being kept today

In 1975, Civil Air Patrol was credited with saving the lives of 57 persons Drough its

lives of 57 persons brough its search and rescue operations, the highest in recent years. So far this year, 45 persons owe their lives to CAP efforts. But these 45 have been saved while flying fewer sorties (7,889 in the first 10 months of 1977) and expending fewer flying hours (14,752) than in 1975. In addition, Civil Air Patrol revse have located the 1975. In addition, Civil Air Patrol crews have located their search objectives 393 times this year.
These statistics indicate in-

These statistics indicate in-creased efficiency on the part of Civil Air Patrol and the reasons are varied. Sophisticat-ed new search techniques, deve-loped in cooperation with the Federal Aviation Administra-tion (FAA) and the AFRCC have contributed to it. So have the stepped-up training efforts of Civil Air Patrol and its members.

The FAA, Civil Air Patrol and the Rescue Coordination Center have developed techni-ques to utilize satellite photographs and computer-record graphs and computer-recorded radar data to speed up aerial search efforts. The techniques are effective and have shortened the time spent on searches where it has been possible to use these techniques.

to use these techniques.

In addition, intelligence-gathering efforts vt.ch seek to give a picture of the crew on crashed airplaxes and predict what they might have done have contributed to increased

efficiency. So, as Civil Air Patrol obso, as Givil Air Patrol ob-serves its 36th year of service to community, state and ne-tion, its members point proud-ly to its record of emergency services and to the hundreds of lives it has saved over

years.

But, it expends its life-saving efforts in other ways also. This year, for example,

DELTA ROCKET EXPLOSIONS PROBLEM SOLVED

it has been involved in saving lives during the late winter blizzards in Colorado and in rescue efforts in the canyon, flood disaster there, in John-stown, Penn., and more recent-ly in Toccoa, Ga. In addition, each year CAP crews perform many mercy flights, airlifting needed human blood, sera of various kinds, and patients who moved to better

need to be moved to better medical facilities.

When Civii Air Patrol mem-bers proudly tell you of their organization, they begin by telling you of its life-saving telling you of its life-saving efforts, since that is the mission

for which it is most famous. But there are others, its aero-space education mission for

example.

Civil Air Patrol has been responsible for helping inaugurate courses on aviation and space-related subjects in hundreds of schools across the dreds of schools across the nation. And each year, it sponsors aerospace education seminars in colleges in every stated, to help train teachers in how to teach these subjects.

But, most of all, Civil Air But, most of all, Civil Air Patrol is proud of its program of leadership development and motivation for young people-its cadet program. When some young people are told about CAP's cadet program, they may shy away from an organization which has friendly ties to the military. But after they become a part of it, they think its part of it, they think its onderful. Civil Air Patrol sponsors a

civil Air Patrol sponson a training course in aerospace education as part of its cadet program. In addition, it spon-sons a variety of special courses and encampments for its teen-age members - many of these being in cooperation with the Air

The top-level such activity is the International Air Cadet Exchange. Under this program, which the Air Force, helps sponsor, young members of Civil Air Patrol, accompanied by adult escorts, visit approxi-mately 22 foreign nations which participate in the pro-gram. At the same time, Civil Air Patrol is host to like num-bers of foreign cadets who bers of foreign cadets who visit the United States during nual summer program.

So, if you get lost out there

So, if you get lost out there in the wilderness, if you little plane crash-lands and you survive, take heart. Civil Air Patrol volunteers will be out there looking for you. And when you see that small plane with the CAP insignia fly over, cheer up, help is near.

Then, while you are recuperating from your traumatic experience, they will tell you how important it is for Americans to understand the importance of aviation and space developments and about the cadet program. If you listen long enough, you may find yourself getting proudly involved.

After all, if you have helped establish a 35-year record of service to the nation, you have reasons to be proud.

KENNEDY SPACE CEN-TER, Fla – When Bob Dena-burg of KSC's Malfunction Investigation Staff first saw the bits and pieces of Delta 134 spread out on the floor of Hanger Ab on the Cape, he knew how the "king's men" must've felt when they we given the job of trying to pi Humpty Dumpty togethe

But Depahure and his col-But Denaburg and his col-leagues had a much more dif-ficult task than the royal en-tourage of the well-known nur-sery rhyme. They weren't dealing with eggshells, but the recovered remnants of America's workhorse Delta rocket.

ca's workhorse Delta rocket.

And somewhere among all
that shattered and twisted debris were clues that ruight
reveal why Delta 134 and the
European Space Agency's Orbital Test Satellite took a
\$42 million plunge into the
Atlantic shortly after littoff
last September 13.

"It was obvious from the
"It was obvious from the

"it was obvious from the "it was obvious from the start that we had our work cut out," said Denaburg, a metall:rigical engineer. "After the Delta pieces were reassembled jig-saw-puzzle style, we were asked to join in the search for teitlate signs. . critical samples. . that would lead us somewhere, honefully to a samples. . .that would lead us somewhere, hopefully to a solution.

The Malfunction Investiga tion Staff, headed by Drew Evans, is KSC's counterpart to TV's fictional gumshoes, Columbo, Kojak, and Barnaby Jones. "There's really not a whole lot of difference between is and them," Evans jested.
"they deal with people and
we deal with hardware. But process is the same.

Evans' band of supersleuths works out of offices and labs located in KSC's Operations and Checkont Building. At their disposal is approximately \$2 million worth of sophisticated test and analysis equipment which allows them to probe into the causes of just about any kind of material or component failure

Even so, the Delta 134 case taxed the staff's exper-tise and resources, gobbling up over 300 manhours of effort over 300 manhours of effort and patience. The first clue was found on the battered remains of solid rocket num-ber 1, one of the nine Cas-tor IV strap-on solid motors used to impart added boost to the Delta to the Delta

Solid number 1 was of special interest to Bob Dena-burg and the rest of the team because photographs taken during the launch phase had re-vealed a massive plume of fire emanating from the solid. Seconds after the plume appeared, a gigantic explosion ripped the Delta to shreds. Had solid number 1 ruptured, causing the explosion, or was the explosion the result of a failure of some kind within the Delta's liquid-

fueled booster stage?

A check of solid number 1, fortunately, one of the eight solids recovered by salvage teams, revealed that it indeed had ruptured. Furthermore, a number of hot spots, or heat affected areas, were found on the metal casing of the solid's aft section. "These hot spyts were not normal," said Dena-burg, "and indicated an un-even propellant burning pro-blem or a liner fail'yre." blem or a liner failure."

Metallurgical examinations Metallurgical examinations shows a hardness difference between the metal of the hot spot areas and the surrounding casing, indicating that the cusing overall may not have met material specifications. "This led us to believe that a heat treatment problem existed at the time the casing was fabricated." Denaburg added. Additional metallurgical

Additional metallurgical Additional metallurgical and mechanical properties tests of solid number 1 and the other seven recovered solids were conducted by the staff and their counterparts at other NASA centers and contractor organizations. It was confirmed by all testing groups that a generic heat treatment problem and some minor welding pro-blems were inherent in the fabrication process. Corrective actions were immediately initiated in the manufacturing pro-

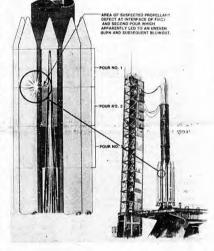
There was still a "fly in the ointment," Denaburg point-

ed out. The tests also coned out. The tests also con-firmed that the casings, though not up to standard specifica-tions, were materially sound enough to withstand the in-ternal pressures generated by the burning solid propellant. "In other words, it was highly unlikely that the casings would rupture internally under nor-mal burning conditions," he explained. explained.

explained.

New evidence uncovered by the Microchemical Analysis Lab shifted the search from the aft section of number 1 to the forward section where the propellant grain was housed. The evidence was in the form of metallic nodules found impedded in the inthe form of metallic nodules found imbedded in the insulation material of solid number 4, which was mounted on the booster adjacent to number 1. The position of the nodules on number 4, sprayed out like buckshot, coincided with the section of number 1 shores the second prober 1 where the second pro-pellant pour interfaced with the first. Moreover, the im-bedded nodules were of the same metallic composition as

Denaburg explained that the propellant for the Castor IV solids used on Delta 134 is





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CAMPUS CLUBS



SKI

This past Friday the Vets began their Summer Fling by hosting a TGIF. Everyone seem-ed to enjoy the Hot Dogs and Beer. Some of the crew used the time to brush up on their Frisbie skills. A job well done goes out to Dirty Dave Johnson and his committee for making the whole thing possible. A special thanks to Dr. W. O'Connor for slaving over the blazing coals to get the Hot Dogs out.

The Vels will have their next meeting this Friday, May 26 at 7:30 p.m. in the CPR. All those interested in joing the Vets this tri should attend. Rumor Control has it that Dirty Dave will be buying after the meeting at Big D's in celebration of his birth. That could be a first!Don't miss it!

miss it! A final reminder everyone

A final reminder everyone interested in pieying softball contact Boh Allen. Anyone knowing the whereabouts of 128 lbs. of air for balloon tires contact Bill Dailey.

Top Hits of the week as picked by Vets at Random – Bill Exiley – "Cool, Clear, Water"; Dave Johnson – "I Could Have Dasaced All Night". Reminder – Friday is Shirt Day.

ROCKET EXPLOSION Continued from page 4

poured like a thick pudding in three separate stages. On hardening, the propellant interfaces merge together into a homogeneous unit. "If they don't," said Denaburg, "a hair-line crack might form at the interface. During burn, the crack can become a miniature combustion chamber Pres. tween the propellant and motor tween the propellant and motor case as extra protection against such defects. Also, procedures for mixing and curing the propellants have been revised, and contractor and govern-ment test, inspection and manuand curing the and curing the and contractor and government test, inspection and manufacturing surveillance have been improved.

New ture combustion chamber. Pres

sure would build quickly and the casing could rupture at New Castor IV motors incorporating these corrective actions were used for the suc-cessful launch of Delta 141 that point.

"It appeared from the investigation that the possibility of Tappeared from the investigation that the possibility of a propellant anomaly existed on solid number 1 which probably caused a burn-through of the casing, exposing the Doita booster to ext eme heat and igniting its liquid fuel." The Review Board, after studying the technical evidence submitted by all NASA and contractor investigative groups, reached virtually the same conclusion. A final report issued by the Board stated that the cause of the failure was most likely the result of a propellant defect in solid number 1, due either to incomplete mixing and curing of propellant inon May 11. Ironically, the pay-load was OTS-2, a replacement for the European Space Agency satellite lost aboard Delta 134.

The loop had been closed, largely due to the efforts of KSC's master sleuths.

by Phil Pro FRANKLY SPEAKING

'I know why they're not pageing the vaggar runner—they don't want to page her!'

either to incomplete mixing and curing of propellant in-gradients or introduction of a contaminant, probably water. As a result of the Board's findings, the design of the Castor IV solid rocket mother has been changed. Additional insulation has been placed be-

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prefered, Call Nanci 256-7258 or 672-

FOR SALE - MISC

FOR SALE: 1 Red & White Couch matching easy chale. First person t has \$30,00 takes all * free additional et if purchased teday 5/24/78. Reply 1625 Daytona Ave., Holly Hill.

SPORTS

Ry Jonathan Bailey

Are you pretty handy with a golf club? If you are then the Golf Team wants you.

The Golf Team is one of the few teams that remain active

The Golf Team is one of the few teams that remain active during the summer and at the moment it is short of players. There are seven openings on the team and if you are interested in joining, the Team would be glad to let you try-out. Try-outs are held every Saturday morning at 6:30 at the Daytona Beach Golf and Country Club. Contact Jim Singletary at Ext. 318 to make try-

It's a great opportunity to improve your game and do some travelling. The Team has meets at 16 Florida universities and colleges plus three or four local competitions so grab your clubs and get to on the fun. Fore!

Bowling News

By Rust Sille

The Riddle Bowling League will be bowling 7:00 Friday nights at Halifax Lanes, 660 Mason Ave. Students, faculty and friends are invited to come out and bowl, as there are still a few teams who need bowlers. The cost is \$3,50 per week with a small sanc-tion fee the first week. Last Marilyn Sills

real nice 207, 503 series, and Tanya Baldauf a 177, 482. For the men, Jeff Marks took For the men, deff Marks took high game and series with a 224, 638 series. Also Doug Baldauf achieved a close second with a 221, 601 set. Please contact Box 3357 to sign up, no previous experience

MEDIA CENTER NEWS NEW HOURS!!!!!!

Remember the survey from the media center about weekend hours last trimester? The results were 3 to 1 to open on Sunday instead of Saturday. So, WE DID! The New Hours are from 4:00 PM

Stop by and check out some of the new books:

-Marathen: The World of Long Distance Athlete
-The Ghost of Flight 401

The Ghost of Flight 401

Fell's Guide to Doubling the Performance of

your car.
—Spitfire at War

-Spitfire at War
-The Photographer's Handbook
-Non-Prescription Drugs' and their Side Affects
-The End of a Presidency
-Understanding Gliding
-The Relaxation Book
-Out of this World: American Space Photography

graphy

These are just a few titles of new and exciting additions to the collection. Stop by and find even

"CAPTURE THE SUN"

CONTEST NOW UNDERWAY FOR COLLEGE STUDENTS EASTERN Lucie, Martin, Okeechobe

and Palm Beach. WESTERN

Students from Embry-Rid-Aeronautical University have the opportunity of win-ning a \$500 U.S. Savings Bond in the "Capture the Sun" contest now underway to promote interest in solar energy and to encourage energy conservation.

The contest is for the best working model or display or technical paper on a new way or method of using Florida's greatest asset ... sunshine. In addition to the \$500 U.S. Savings Bond for the winner, there will be a check for \$500 for the college or the university

There will be six runners-up. Each runner-up will receive a \$250 U.S. Savings Bond, and the college or university will receive a \$250 check. Deadline for entries is 5:00 p.m. Friday, July 7 and entries must be delivered to a local Floridz Power & Light Com-pany office. The best entries will be displayed at the Florids. There will be six runners be displayed at the Florida Solar Energy Center at Cape

There will he a separate contest for each of the Florida Power and Light Company's six geographical service areas. Counties include:

NORTHERN

Nassau, Baker, Columbia, Su-wanee, Unior, Bradford, Duval, Clay, Putnam, St. Johns, Flag-ler, Alachua and Volusia (that's

ounty). NORTH CENTRAL Seminole, Brevard, Indian River and Volusia (Southern portion)

FRATERNITY CORNER

Sigma Chi

By James I. James

Would you believe that through our frivolous and firey antics this past weekend, Sigma Chi has managed to carry on our tradition of unparallel-ed entertainment and Good our tradition of unparallel Cheer? Yes folks, we really out-did ourselves this time. The suntan committee was out The suntan committee was out in full force for eight hours on Saturday, and that same evening we did a Sigma Chi power play and raided the ABC Lounge in South Daytona. Of course, our disco couple Tom and Chris were on the dance floor doing their thing. "YOWSA!"

on the dance floor doing their thing. "YOWSA!"

That next morning, every-one was up bright and early (well, almost everyone and almost early) to begin an event that's bound to win us a meri torious achievement award for originality on the Gong Show
....the "Sigma Chi Car Wash
and Bar-B-Que". It seemed we
washed half the caus in Day-[ona and a few of the brothers and little sisters as well.

and little sisters as well.

But the good part really began with our cook-out back at the tanch. Everyone had a great time. We all caught some rays and really had some rays and really had some relaxation. I mean, how could you NOT have a lot of fun with a half harrel of beer and a spiked watermelon for dessert? Much thanks to Brian

Hendrix for the fantastic job

That's just a brief descrip-tion of the fun we had this weekend. But about the great weekend. But about the great time we're having this up-coming weekend will be nothing short of wild. Fri-day night, we're going to ex-plore "CASSADEGA"! Hey, day night, we're going to explore "CASSADEGA"! Hey, that's right, we're going to get all the gusto we can out of life and get some kind of glimpse into the unknown. This should put his no your chest.

As for Saturday night, we all plan on going to "The Last Moving Ficture Co." in Orlando. We'll have their "BOOGES ENGES" on. This should prove out to be a very exciting weekend.

end.
Interested in a fratemity but don't know who to talk to? Sigma Chis are all over the campus and are willing to answer any questions about social fratemities you might have. Simply tap one on the shoulder, or if there isn't a Sigma Chi in sight, stand on your head and kick your legs in the air. I'll tell you one thing, you'll get everyone elses attended. you'll get everyone elses atten-tion and there's bound to be

E Signa Chi in every crowd.
We're located at 520 South
Ridgewood and our phone is
252-2277. Feel free to get a hold of us any time.



By JR

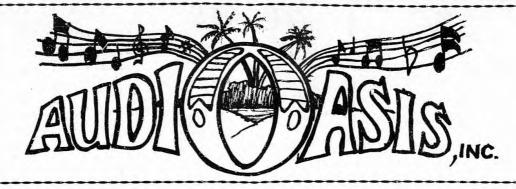
Greetings, another busy week for us! This past weekend we worked at the Speedway for (are you ready?) A Wrecker Rodeo, that's right, ton-trucks everywhere!! Most of us had a lot of fun, me, I got sunburned

We have planned a big weekend over June 10-11. We are going to Disney World, and Busch Gardens. This should and Busch Gardens. This should prove to be the trip of Term "A", Anyone who might be interested in coming with us, get in touch with one of the brothers, or come to the meeting Thursday night, 7:00 p.m. at Snapfinger Woods Apt. 26. If you need a ride, that can be arranged too!

A left-wing group seems to have jelled in the heart of our fraternity. These sons of Leopould seem to have been sharpening up certain skills. Rumor also has it that their mad Finn leader may soon be escaping to the North.

Well, that's about it for now, a special hello to Chuck Timberlake, (see I remember-ed!) Glad to have you around. HEY SIGMA CHI. READY TO DO SOME PARTYING?





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