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Embry-Riddle Aeronautical University

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EDITORIAL

By Dink Butler
AVION Editor

Did you hear about John? He finished up his last trimester in the spring and showed up at 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 in your last trimester and have not been over and spent some time with a counselor to verify that you haven't forgotten anything? A Graduates in June and went over shortly before the A term began and discovered that I needed one more course 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 you could give the new student would be to let the counselors help you plan your education. Perhaps by taking certain courses you might be able to qualify for an Associate Degree in your minor. You are paying for this service, it would be in your best interest to use it.

A last word 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 spend a session with his advisor or a counselor once or twice a year?

ROVING" REPORTER

Keith Kallash

1. "Establish major student engineering projects. Perhaps experiment with modifications on some of our aircraft that have been donated by the Engineering Department."

Hall Scripka, Engineer

2. "Incorporate the study of astronomy into our science programs." Mike Jaworski, Aviation Manager

3. "Establish a new athletic program." Hall Perry, Main Manager.

4. "Increase the amount of money charged for living in the dorms." Carlos Moreno, Main Tech

Klyde Morris

The AVION has published the results of a survey conducted by Marketing and Development. One section of that survey dealt with student satisfaction on various things that have room for improvement at the school. The AVION'S Roving Reporter operation 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?

F. S. M.1. "I'd hire an efficiency expert. I feel that the employee turnover rate is astronomical. This must be a better way." Mike Jaworski, Aviation Manager

7. "I'd recommend that the expansion plans be accelerated to accommodate the rapidly increasing number of students." Dave Johnson, Pro Air

8. "I'd publish a list of exactly why the tuition we pay is good." Hall Perry, Main Manager.

in order to provide Embry-Riddle students, faculty and staff with up-to-date information regarding the University's growth and development, the AVION will print opinions and surveys dealing with student satisfaction. These results will be published in issue number three of the AVION. These results are not to be confused with the opinion of the University or its Staff. All Letters submitted will be printed provided they are not libelous, or 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.

ADMIN. ANSWER OR COMMENT

John A. Fish, Embry-Riddle Director of Administration, had this to say about the AVION survey:

Negative 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 is no longer based on more efficient, but also institute more responsive to the needs of the students. In addition, it was essential that in carrying out their day to day service, the Security personnel better project the image and value of the University to students, staff and the public.

The department was reassigned to function within the Physical Plant management structure. This is operational and consistent with universities of our size, and with our efforts to ensure continuity of services. The name was changed to Department of Safety, for obvious reasons and flexibility recognized an interdepartmental part of "safety." An inclusion and area department search was made for a Director of the new department who had the qualities and management skills necessary to implement, manage and develop at new safety concept and program. Mr. Philip Bird was finally selected for the position. Mr. Bird, a graduate of State 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 low enforcement.

In overall numbers, our safety force has been reduced. This has been compensated for by an overall effort to increase the efficiency and upgrade the level of service perceived by the students. Students are encouraged to make recommendations or discuss any difficulties they may be experiencing in regard to the safety program. Mr. Bird, as you are aware is both receptive and responsive.

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CONTACT
- WARRREN A. MESSERSCHMITT, DIRECTOR
- ROBERT BYER - CO-OP COORDINATOR
- EXTENSION 300/703

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

the AVION staff

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END OF THE LINE...STAY ON TOP OF THE AVIONSitics...READ THE COLUMNS ON TOP!
LIBYA:
An Ancient And Modern Civilization

By Talib Zeigam

Libya is one of the Arab countries in the middle east located in the north of Africa. Egypt is on the eastern border, and the Mediterranean Sea north of Libya. Tunisia and Algeria form the western border; Chad, Niger and Sudan form the southern border.

The population of Libya is nearly 3 million. The sea is 8 times the size of the state of Texas. The capital of Libya is Tripoli. The other two major cities in Libya are Benghazi and Sebast. Most of the people live by the coastal strip. Most of the county is desert, which is about 75% of the total area. The Arabic name for the desert is farouk.

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 all the old prophets, messengers of God, Moses, Jesus Christ, and Mohammed. Jesus Christ and Mohammed are messengers of God with Mohammed 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 year our National People Congress elected the Arab world to our national name which means government of the people, by the people, for the people.

Our recorded history goes back over 4,000 years. Many of the antiquities are still standing. Libya’s ancient cities are unclaimed all over the world. They include ancient Greek and Roman settlements, 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, tourism, etc.

The situation in Libya plays a big role in our society. We have over 700,000 students going to school in Libya from elementary to secondary universities. There are about 20,000 Libyan students taking their education in the United States in different majors.

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

COMING UP NEXT: MAURITANIA
CIVIL AIR PATROL MARKS
36 YEARS OF SERVICE

DELTA ROCKET EXPLOSIONS
PROBLEM SOLVED

If you crash-land in your
small private plane for a long
cold day while hunting
in some mountain wilderness,
your only chance to get away
from a vacation camp, who will
come looking for you—other
people, you answer, to some
people, volunteers, or, well, lots
of people.

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

They probably will be up in
to the sky in small airplanes,
looking for you. They will also
be part of the ground search,
scouring the countryside.

Each year, Civil Air Patrol
volunteers and observers, assisted
by scores of ground team
members, fly three out of every
two flying hours spent in the
United States on search and
rescue missions under the
Air Force Rescue and Coordination
Center (AFRCC).

They have been performing
telemetric search and rescue operations
— a lot more humanitarian
actions—since the dark days of World War II.

CAP was established on Dec. 1, 1941, by the Japanese attack
on Pearl Harbor, as a joint
organization of the U.S. and
Canadian armed forces.
The members were volunteer
policemen, firemen, doctors
and those who wanted to contribute their services to the nation's
civilian defense efforts.

During the war, its members
flew over 400,000 hours
searching for missing
persons and found over
200,000 of them.

In 1946, however, only
60,000 hours were spent in
search and rescue missions of
foreign nationals. The
organization has since
grown to become the largest
volunteer organization in the
world, with over 600,000
members.

In May 1975, CAP
volunteers

1.3 million hours lost in high
mountain areas. They have
located over 23,000 people
since 1946.

In the first 10 months of
this year, the men and women
of CAP flew over 650 emergency
search and rescue operations
(operations). This is one
higher than the 645
missions recorded in all of 1973,
the highest figure in recent
years.

One unknown is what
the second number of
searches means for the war
years and the earlier postwar
years since no official records
exist for those years which
could be used to those being
kept today.

In 1975, Civil Air Patrol
was credited with saving the
lives of 57 people through
its search and rescue operations,
the highest in recent years.

No one knows, however,
how many lives were saved or
lost during CAP's efforts.

In addition, Civil Air Patrol
crew has located their
search objectives 353 times
this year.

The search and rescue
missions are conducted by
specialized personnel who
are trained in a variety of
survival techniques. The
instructors teach the
participants in how to
find their way, how to
get back to civilization,
how to find and use
natural resources,
and how to
survive in the wilderness.

The FAA, Civil Air Patrol
and the Air Force Rescue
Center have developed
telemetric safety panels
and computer-recorded
search and rescue tools.

The techniques are not
the one used to
search for a missing
gunman, for example. They
are the one used to
search for a missing
person.

In addition, intelligence-
gathering techniques are
used to locate the
core of the situation.

For example, if a Civil Air
Patrol observes its
20th mission of service to
community, state and
nation, its members point
out that they want to
provide services to the
public and to the
public services.

But, it also expires its
lifespan just as it begins.

This year, for example,

KENNEDY SPACE
CENTER, Fla. — When Bob Dun
away of KSC's Mahoning
Investigation Staff first saw the
lato and piece of Delta 104
on the floor of the hangar
on the Cape, he said he had
"just been laid off"—he
feared they might have
when they were
about to go out to
Humphry Dumpy together

But Denuart and his
colleagues had learned
a much more difficult
than the royal en-
alog to the well-known
methodology. They weren't
wanting to makeeggs, but the
repeated redundancies of Ameri-
can's workhorses Delta rocket.

When it was planned, all
that shattered and twisted de-
clines were those that might
reveal why Delta 134 and the
Space Agency's Civil Air
Patrol Satellite took a million
plunge into the Atlantic
shortly after liftoff.

It was obvious from the
start that we had our work
out—for the time being,
Delta had become a
mathematical-logical
engineer. After
a couple of Delta
launches, we began to
the jigsaw-puzzle-style, we
were asked to join in the
search for suitable sign-
critical experiments.

That is why we have
them—so we might
meet a situation.

The malfunction investiga-
tors, headed by Bob
Conn, was KSC's counterpart
for the National
Satellite Coordinated
Laboratories, said
there's not a whole
lot of difference between
us and them—Conn
insisted. But we deal with
people in a way we deal with
hardware. But, for the
process—many of these

So, the Delta 134
is supposed to be a
patentable,
acrobatic, and
an in-flight
destruction.

Even so, the Delta 134
is supposed to be a
patentable,
acrobatic, and
an in-flight
destruction.

Yet, it was the
crashed, and
the explosions.

The first one
was supposed to be a
patentable,
acrobatic, and
an in-flight
destruction.

Yet, it was the
crashed, and
the explosions.

A check of solid number
1, and the one of the right
solids released by savage
bores, 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 spots
were not normal," said Dun-
away, "and indicated an un-
propulsive burning problem
or a liner failure.

Metallurgical ex-
aminations showed a hardness
difference between the metal of the hot
spot areas and the surround-
ing casing, indicating that the
casing overall may not have
met material specifications.

"This led to believe that a
heat treatment problem existed at
the time the casing was
fabricated," Denuart added.

Additonal metallographic
and mechanical properties tests of
solid number 1 and the other
seven recovered solids were
conducted by the firm and
their counterparts at other
NASA centers and contractor
organizations. It was confirmed
by all testing groups that a
genetic heat treatment
problem and some strain welding
problems were inherent in the
fabrication process. Corrective
action were immediately initi-
ated in the manufacturing
processes.

There was still a "fly in
the ointment," Denuart
said.
The Rockets will have their next meeting this Friday, May 21 at 7:00 p.m. in the CFI. All those interested in joining the Vets will be interested in attending. Rumor Control has it that next week’s meeting will be after the meeting at Big Joe in order to give the new people a chance to show off their best tricks.

A final reminder everyone interested in participating should contact Bob Johnson. Anyone knowing the whereabouts of 128 lbs. of air for balloon time contact Bill Dickey.

Top Hits of the week is picked by Vets at Random - Bill Clary - “Thin, Clean, Water” - Dave Johnson - “I Could Have Died All Night” Reminder - Friday is Shirt Day.

Bowling News

The Biddle Bowling League will be bowling 7:00 Fridays at Highline Lanes, 600 Mason Ave. Students, faculty and friends are invited to come out and bowl. There is still a few team spots available. The cost is $2.50 per week with a small registration fee the first week. Last week, Marilyn Sible bowled a real 207, 503 series, and Tonya Bledsoe a 177, 482. For the men, Jeff Marks took high game and series with a 234, 518 series. Also Dave Bledsoe took his first win against a third in a close second with a 231, 607 set. Please contact box 2577 to sign up, no previous experience necessary.

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ROCKET EXPLOSION

Continued from page 4

between the propellant and motor case as extra protection against such defects. Also, procedures for testing and curing the propellant have been revised, and control and government test, inspection and manufacturing supervision have been improved.

New Castor IV motors incorporating these corrective actions were used to launch a successful launch of Delta 141 on Tuesday, 11, 1966, from Cape Kennedy. The motor, liquid oxygen and liquid hydrogen, is powered by two Castors. The launch took place from Jetty 134.

The loop had been chosen largely due to the efforts of KSC’s motor section.

The Propulsion News is a section of the Space Shuttle News.

NEW HOUSES!!!!!!!

Remember the survey from the media center about weekend hours last term? The results are in! The center will open at 10 a.m. on Saturday and Sunday.

So, WE DID! The New House are from 4:00 PM - 9:00 PM Saturday afternoons.

Don’t forget, no more Saturday hours.

- After 30 years of training and work, you may be ready for some Sunday training. (Maybe)

Stop by and check out some of the new books:
- Marathon: The World of Long Distance Athletes
- The Guru’s Guide to Doubling the Performance of Your Brain
- Sideline at War
- Non-Prophetic Despair and Shit Side Effects
- The End of a Presidency
- The Education Book
- Out of this World: American Space Photography

There are just a few times of new and exciting books in the store, so stop by and look around.

"CAPTURE THE SUN"

CONTEST NOW UNDERWAY FOR COLLEGE STUDENTS

Students from Easley-Kidde Aviation Systems, a division of Kidde-Floral Group, have the opportunity of winning a $250 savings bond in the "Capture the Sun" contest. The "Capture the Sun" contest is designed to promote interest in solar energy and to encourage energy conservation.

The contest is for the best working model or display of a new or improved method of harnessing solar energy. Entries will be judged by a panel of judges composed of various individuals knowledgeable in the field of solar energy.

There will be six runners-up, and each will receive a $250 U.S. Savings Bond. In addition, the college or university will receive the $250 check, and the college or university will receive the $250 check.

There will be a contest for the best working model or display of a new or improved method of harnessing solar energy. Entries will be judged by a panel of judges composed of various individuals knowledgeable in the field of solar energy.

There will be a separate contest for each of the Florida Power and Light Company’s six geographical service areas.

NORTHERN

DeLuna, Panama City, Tampa, St. Petersburg, Lakeland, Ft. Myers, Lakeland, and other communities.

SOUTHERN

Daytona Beach, West Palm Beach, Ft. Lauderdale, Miami, and other communities.

Awards will be presented to the winners at a special ceremony to be held at the Florida Power and Light Company’s headquarters.

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