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Aviation Business......B5

Inside Section

AERONAUTICA

LOT Airlines declines on MD-80

by Frances L. Cozza Aeronautica Editor.

On June 4, 1991, LOT Polish Airlines, the tions of the national airline of Poland, had signed a letter of intent to purchase nine MD-80 twin jets from McDonnell Douglas. The airline also had planned to purchase six MD-83s and three MD-87s with a total purchase price of approximately \$350 mil-

It was the first commercial transport aircraft sale by McDonnell Douglas to Poland. The first airplanes were acheduled for delivery to LOT in the first quarter of 1992. The remainder were to be delivered through 1993. LOT planned to use the short-to-medium-range jetliners in its European, millions of dol-North African and Middle Eastern structure.

At the time, McDonnell Douglas vice president and general manager, Russell L. Ray, was LOT's requirepleased to have been selected over Airbus and

Recently, McDonnell Douglas called for an investigation by the government of Poland into the decision by LOT-Polish Airlines. A letter to Minister of Transport Ewaryst Waligorski from Robert H. Hood, president of the Douglas Douglas propos- McDonnell Douglas MD-80. Aircraft division of McDonnell Douglas, al includes a requests the probe.

it follows LOT's announcement this week that under which McDonnell Douglas would place

Boeing 737 aircraft will be purchased, despite the existing commitment by the airline to acquire MD-80s.

After McDonnell Douglas competed with other aircraft manufacturers for the order from LOT, management Judged the MD-80 to be the best aircraft and judged the McDonnell Douglas

engine fleet of nine MD-82s and smaller MD- ued working with LOT to finish the MD-80 pur-

Hood added that all condiagreement had been met, including the arrangements for financing. He said that while the terms of the agreement were being formalized McDonnell Douglas spent lars to build the aircraft to meet ments and con-

tinues to incur

additional costs.

The

"we were advised by

LOT management

that our package

was still the best."

letter MD-80 left on the ground...

the McDonnell LOT Airlines decides to choose Boeing 737 over the points out that

very favorable offer of industrial collaboration wrote, "we were advised by LOT management

aircraft manufacturing work in Poland. Agreements are set with two factories for work ready to begin. Poland's Ministry of Industry determined in August that McDonnell Douglas' industrial offer is more advantageous -Hood to Poland industry than the competitors' proposals, Hood noted.

chase agreement. As recently as August 22, Hood have been released.

that our package was still the best. Then, inexplicably, LOT's aircraft evaluation reports changed to favor Boeing aircraft over McDonnell Douglas

"We believe such actions are motivated by reasons not in the best interest of LOT or the government of Poland," Hood concluded in the letter. "Accordingly, McDonnell Douglas requests that the government of Poland conduct an immediate and thorough inquiry into this entire matter. We

existing MD-80 offer, however no further details

McDonnell Douglas continues to deliver Long Beach, Calif. -- range wide-body trijets in the quar-McDonnell Douglas delivered 40 ter, bringing to 24 the number turned MD-80 twin jets in the third quarter over since the first delivery last winof 1991, which brings to 108 the number of the jetliners the company has turned over to operators around the world this year. Last year, the Douglas Aircraft years ago. The workhorse aircraft, division of McDonnell Douglas which flies on average between delivered 99 MD-80s in

the first nine months ...MD-80 brings and 139 for the full year, the most MD-80 production of the Intermediate deliveries since the program was inaugurated range jetliner to in 1980. 933.

Bill Skibbe, vice president and general year and set a new record for the program."

The latest deliveries of the MD-80 brings production of the intermediate range jetliner to 933. More than 50 operators are flying worldwide, serving passengers at more than 375 airports in more than 60 countries.

McDonnell Douglas also delivered six of its new MD-11 long-

The popular MD-80 jettiner has accumulated more than 10 million flight hours since its introduction II

seven and eight hours every day, makes nearly 4,000 trips per day.

There are five versions of the MD-80, offering airlines a selection of range capabilities and engine take-off thrust choices. The

manager of the MD-80 program, quiet, fuel-efficient and pro-environsaid the goal for 1991 is 140 deliver- ment airliner offers passengers the ies. "We expect to meet our goal this overwhelmingly-preferred fiveacross seating in its comfortable

The McDonnell Douglas family of twin jet airliners has been named winner of the Air Transport World Airline Technology Achievement Award, honoring 25 years of successful DC-9, MD-80 and MD-90 design, production and in-service performance accomplishments.

Wichita, Kan Alaskan vice throughout rural Alaska. The respectfully request that this inquiry be complet-"Mysteriously, in early regional carrier MarkAir Express August senior management of LOT announced ed by September 13, 1991." offer to be the best offer. Despite LOT's announced choice of the other has placed orders for five Beech Hood's letter cites the fact that LOT signed an that the aircraft competition would be reopened," agreement on June 4, 1991, to buy a mixed twin- Hood's letter states. McDonnell Douglas continaircraft, McDonnell Douglas has extended its the 1900D. 1900D Airliners for delivery in

Gormley praises NASA for its contributions

All airplanes

could benefit

work on drag

reduction.

Maryland Addressing the American Institute leadership in the world of aviation, of Aeronautics and Astronautics we have some work to do. (AIAA) 9th Conference on Applied General Aviation Manufacturers Association (GAMA), praised NASA for its past contributions to mity," Gormley said. the general aviation industry through scientific research and called for ed that increased greater efforts in the development of NASA emerging technology.

Gormley said, "General aviation advancements and manufacturers have benefitted from technological NASA technology efforts in the past, especially with regard to applications in the turbine-powered business airplane segment,

But such applications in the piston airplane segment have been slow, and that is where they are safely needed."

"Today, if we are to retain our long term, from a very broad based could be very beneficial."

There are a number of areas in aeronautical disciplines. Aerodynamics in Baltimore, James which NASA could make some very D. Gormley, president of the meaningful contributions - not just continuing work on drag reduction. to general aviation, but to the whole aeronauties commu-

> Gormley suggestresearch from continuing lead to could improvements in _ areas such as the

airspace system, satellite communi- tors to minimize drag for new cations, noise abatement, human factors, basic aeronauties and pow-

"general aviation can benefit, in the more readily available computers

and comprehensive NASA research technology program in the classical efforts, continuing work is needed

All airplanes could benefit from natural and powered, Lower drag means lower fuel con-

sumption, lower operating costs and increased range and efficiency, NASA's computational airflow programs, which require very large computers, can provide information on optimum shape fac-

Continuing work to increase the capabilities of these programs so "For instance," Gormley said, that they can be used on smaller, Gormley said.

"In addition to drag reduction on laminar flow wing designs, both

very accurate shapes needed to maintain laminar flow over a wing.

Development of practical systems to pump air through the wing surface for boundary layer control in a powered laminar flow system would be belpful.

Research on how to produce a wing surface that is both accurately contoured and porous is also needed.

It seems to me that this an area that could benefit direct NASA/industry cooperation,"

MarkAir Express orders Beech Aircraft 1900D

The 1900D is Beech Aircraft's new 19-passenger stand-up cabin airliner, designed specifically for the commuter/regional market. The MarkAir planes will be the first 1900Ds delivered with a combination passenger/cargo interior configuration.

"We are extremely pleased that a carrier of MarkAir's stature and prestige has chosen our airplane," said Beech President Jack Braly. "We believe the 1900D is ideally We need methods to produce the suited for MarkAir's Alaskan opera-

MarkAir will receive its first two 1900Ds in April, 1992, with two more scheduled for delivery in May and the fifth aircraft in June.

MarkAir Express is a subsidiary of Anchorage-based MarkAir, Inc., the dominant intrastate carrier in Alaska. The parent company operates Boeing 737s, Lockheed C-100-30 Hercules', and DeHavilland Dash-7s and Dash 8s.

MarkAir Express operates a fleet of 55 twin and single engine aircraft, providing passenger and freight sor-

largest aircraft currently in its fleet are Beech 1900Cs, predecessor of

Developed from the highly succeasful 1900C, the 1900D has a cabin which is 14 inches taller, giving it a 71- inch center aisle - a stand-up cabin for the majority of

The increased cabin height of the 1900D adds 142 cubic feet of overall cabin volume - a 28 percent increase in capacity over the 1900C.

Powered by Pratt & Whitney PT6A-67D engines developing 1,279 shaft horsepower each, the 1900D has cruise speed performance in the 280-knot range. The aircraft can depart fully loaded from runways as short as 3,770 feet on a standard day.

A four-tube Collins Electronic Flight Instrumentation System (EFIS) is standard equipment on the 1900D. Other standard features include a flight data recorder, cockpit voice recorder, two-inch independent standby gyro horizon system, dual flight director computers, and nearly identical left and right sides equipped with Collins APS-65H autopilots.

AH-64 Apache having structural problems

MESA, Ariz. (AP) - A federal agency says there's a "potentially catastrophic problem" with the Apache helicopter, but the maker say the problem is old news and is being corrected. in a report to congress Thursday, the General Accounting

Office said the AH-64 Apache, which is flown by the Army, has structural cracking in the tail boom, The Mesa Tribune reported. Officials at McDonnell Douglas Helicopter Co., which has a plant in Mesa, said the tail boom cracked during stress tests and that no cracks have occurred during field operations.

There are no outstanding safety flight issues with the Apache no unresolved issues of any nature that could potentially impact the safety of the aircraft and its crew," said Arnie Williams, McDonnell Douglas Helicopter director of communi-

Previous OAO reports on the aircraft have cited problems with its see-in-the-dark electronics and jamming of its 30mm

The office last year recommended that the Army stop buying new Apaches and beef up maintenance of its existing fleet.

The GAO report made Thursday to the inspection subcommittee of the House Committee on Commerce and Energy said a crack could result in "the loss of the tail boom, (which) would likely result in the loss of the aircraft."

McDonnell Douglas officials said no Apache has logged 4,500 hours of flight time the fatigue test was designed to simulate. They also questioned whether the weight used in the tests were greater than what an Apache would be carrying. The GAO report said the Army has made improvements on

other problems with the Apaches, but there hasn't been enough time yet to prove the reliability of those corrections. McDonnell Douglas Helicopter was placed on the Defense Logistics Agency's Contractor Alert Program in July, Williams Warbird...

said the company has since submitted an improvement The company has delivered 681 of the 807 Apache attack

helicopters ordered by the Army.



The AH-64 Apache still battling its stress fracture problems.

National Guard cited for disturbing residents

National Guard wants to expand high-speed, low-altitude fighter jet training flights over the White Mountains but wants to avoid criticism that it is ignoring public con-

The National Guard Bureau in Washington says expanded training space is needed because the Guard is replacing its A-10 Warthog tankhunters with faster, more sophisticated F-16s. If the area is too small, pilots

can be distracted by the need to constantly monitor their proximity to airspace boundaries," the Guard

Criticized for not setting hearings in the state, the National Guard says it is working up a schedule of public hearings in New Hampshire.

Col. Joseph Riley, spokesman for the project, Thursday told the Development he would like to schedule a hearing in the Plymouth area by the end of this month,

The council, made up of several state agency heads, is one panel that will review the plans.

No meetings were scheduled originally in New Hampshire, Riley said, because the Guard believed a recent meeting in Farmington, Maine, would suffice because New Hampshire officials were invited.

Council members recommended the Guard schedule an informational hearing, but Riley said the Guard

CONCORD, N.H. (AP) - The will hold an official "scoping" hearing, and comments will be recorded and become part of the study on what impact the plan might have.

Under a wide-ranging plan that includes changes in six Northeast states, the Guard proposes more than doubling the New Hampshire flight area, which now includes the southern part of the White Mountains. It would include the White Mountains to Berlin and Groveton, west to St. Johnsbury, Vt., south to Montpelier, Vt., and eastward almost to Laconia, The New Hampshire plan

involves about 3,800 flights a year, each lasting about an hour over the training area, mostly from the Massachusetts and Connecticut Guard fliers. Other flights would be from units in Vermont and Quebec.

In various scenarios, planes might state Council on Resources and fly in groups of two or four and practice how to detect and attack or avoid each other. No weapons would be fired.

Massachusetts and Connecticut Air National Guard pilots have been swooping over the White Mountains as low as at 100 feet in A-10s for nine years.

Ten years ago, the A-10 training proposal prompted a series of hot hearings and raised complaints about the jets hurting tourism, scaring hikers and buzzing airports or fire watch towers.

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British paid in May.

Artsebarsky.

Soviet media say Austria paid \$7

million from a Japanese passenger

in December and \$10 million the

flight, is slated to remain on board

Toktar Aubakirov, a test pilot and

the first ethnic Kazakh in space, will

return to Earth with Viehboeck and

Viehboeck, 31, has a background

in electronics and speaks six lan-

The mission commander, Col. Alexander Volkov, making his third

Cracked seals found on third shuttle's wings

CAPE CANAVERAL, Fla. (AP) - NASA discovered cracks Thursday in the protective thermal layer of the wings of Discovery, the third space shuttle to be hit by the perplex-

Of the five thermal seals removed for inspection, one was cracked, said NASA spokeswoman Lisa Malone. More of the 44 seals - 22 per wing - were to be inspected on NASA's most traveled spaceship.

The problem was first noticed last week on Atlantis, scheduled to fly in space in November. Eight cracked seals were discovered on Atlantis' wings.

Nine cracked seals were uncovered this week on the wings of Columbia, which is undergoing modifications at Rockwell International's shuttle assembly plant in Palmdale, Calif.

The reinforced carbon scals are along the edges of the shuttle wings and protect the orbiter from the intense heat of atmospheric re-entry.

Engineers still do not how or when the cracks occurred. It appears as though the seals were damaged on the ground and not during flight, Malone said.

Technicians were expected to finish replacing the damaged seals on Atlantis with spares Friday. It is uncertain whether the work will delay Atlantis' upcoming military



Broken wings...

they were damaged on the ground.

Orbiter update...

Atlantis - STS-44/DoD - OPF Bay 2

MOSCOW (AP) - A Soviet rock- Soviet space program was forced to

Viehboeck, will spend eight days in the Mir until March 1992. Co-pilot

Viehboeck is the third paying guages. He began training for the

passenger to travel in the Soyuz mission in the Soviet Union in

- Positive pressure test of the orbiter's wings,

rocket since the cash-strapped January, Tass said.

Cleaning of the midbody.

space docked today with the orbit-

The Soyuz TM-13 spacecraft

Austrin's first cosmonaut, Franz

space, returning to Earth next week

with Soviet cosmonaut Anatoly

Artsebarsky, who has spent five

months making repairs to Mir and

reached Mir at 9:39 a.m., the Soviet

Cosmodrome, Tass reported.

news agency reported.

conducting experiments.

Reinstalling the reinforced carbon carbon t-seals and panels on

Installation of carrier panels around the RCC leading edges.

- Servicing the orbiter with potable water.

Work in progress:

the orbiter's wings.

- Repairs of minor dings in the radiators.

Work in progress:

Opening of the payload bay doors.

 Preparations to perform a test of the payload bay doors. Removing STS-48 payload equipment from the payload bay.

Inspection of the RCC T-scals. One T-scal was found cracked out of the 11 seals inspected so far, All 42 T-seals will be inspected. - Post-flight inspections and testing.

Discovery - STS-42/IML - OPF Bay 3

Endeavour - STS-49/INTELSAT Reb. - OPF Bay 1

Work in progress:

- Installation of wing struts.

- Filling and bleeding of the hydraulic system. - Elevon cove seal leak checks.

- Leak and functional tests of the liquid hydrogen main propulsion

Leak and functional tests of the auxiliary power units. Preparations to install the remote manipulator system.

Cracks have been found on all three of the active shuttles now. NASA still does not know the cause of the cracks, but it appears that

Scientists working on ecosystem design for Mars expedition study of the miniaturized ecosystem. United States hopes to send astro-

WEST LAFAYETTE (AP) - The lengthy expeditions to Mars. seeds for mankind's next giant step in space - a voyage to the planet Earth's processes and condense transporting supplies to space make completed ecosystem must be able Mars - are taking root at Earth- them down to the size of a spacebound labs in Indiana.

help devise a space colony capable Aeronautics of keeping astronauts alive during Administration for a feasibility

On our way ...

What we want to do is take the craft or colony," said Cary Mitchell, Researchers are designing aspects a Purdue University horticulture of an artificial environment that professor. The scientists are using a mimics the Earth's. Their aim is to \$5 million grant from the National and Space

The difficulty and expense in nauts to Mars. Mitchell said the the research critical, said Mitchell, to perform nearly the same functions

who heads the Purdue effort.

The voyage to the fabled red planet will take about eight months, cessed into food. Air and water must Astronauts probably will stay several months before returning home. "We can't build rockets big reprocessed.

enough to carry all of the supplies, such as food, water and oxygen that would be needed to keep astronauts alive for that long," Mitchell said.

The proposed space ecosystem, dubbed the Controlled Ecological Life Support System, gained steam recently when President Bush endorsed a manned expedition to Mars.

NASA officials say the effort to place astronauts on Mars will have three stages.

A space station to orbit Earth is planned before the end of the decade. By 2010, a space colony on the Moon is planned. And by the year 2020, the

study. In Arizona, for example, eight people recently began a twoyear stay inside a self-sustaining

Manmade ecosystems on Earth

already are beginning to come under

glass dome called Biosphere II.

as the planet Earth.

survive.

conditions,

Plants will be grown and pro-

be maintained and regenerated. And

all animal and plant wastes will be

oxygen astronauts breathe and will

give rise to the seeds needed for suc-

cessive plant generations.

Meanwhile, astronauts will give off

the carbon dioxide the plants need to

the system with the idea that it will

have to withstand dramatically barsh

Purdue researchers are designing

Space crops also will produce the

sea Mara page B7

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Scientists are now beginning to study various closed ecosys-

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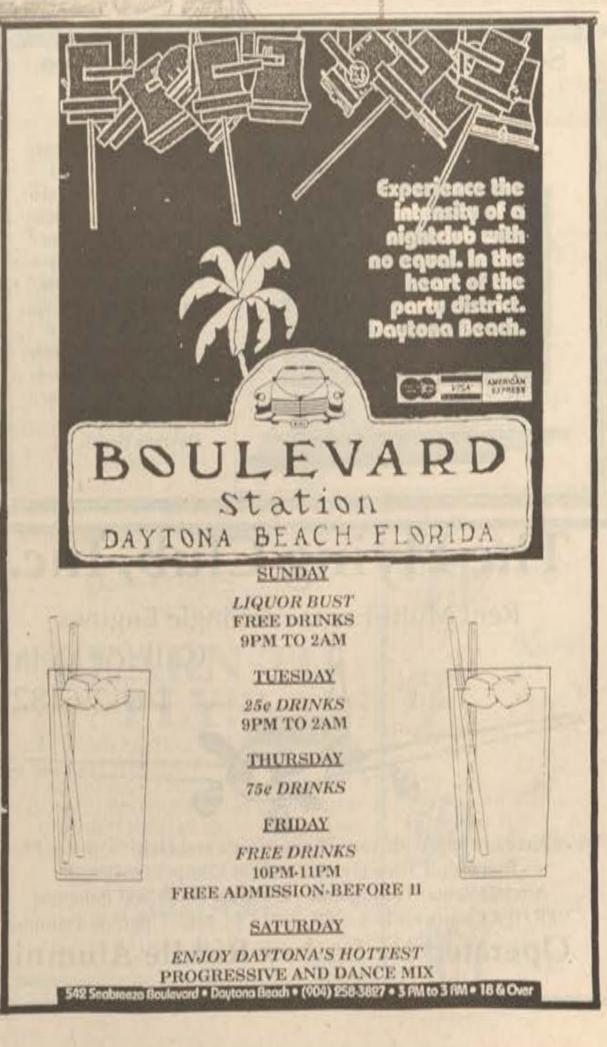
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Quark XPress, best DTP for the Mac?

by David Fekke Production Editor

QuarkXPress® 3.0 is a software package used for deak top publishing. There are several programs that can be used for desk top publishing including Ventura 3.0 and Pagemaker 4.0. While Ventura and Pagemaker can be found on IBM and Apple Macintosh equipment, QuarkXPress can only be found on Apple equipment.

Desk top publishing software in used to design page layouts and typesetting for hard copies, such as newspapers and magazines. The Avion uses this equipment to produce the newspaper as you see it.

and typesetting... The way newspapers were laid out = get the text to flow around pictures, and adjust the col-

With our newspaper and many others, there are still Applications along with documents at the same time. many things that have be cut and pasted, but with

QuarkXPress® 3.0 allows copy-protected Templates to be made for laying out specific areas. This means specific items can left permanently on a document, and then laid over again for each issue. Once the template is made, it can not be changed.

that you can do with normal documents, but they can be changed.

Because of the Macintosh equip-

ment, users get to work on the finder. in the 1970's through the early 1980's was all done man- which is apple's disk operating system. It allows you to ually, by cutting and pasting columns. It was next to work on several documents at once and transplant items impossible to place filler items in the center of the text, from one document to another very easily by dragging them into the other document. Plus with the new system seven software, users can work on several different

QuarkXPress® 3.0 has several features that Ventura of frames that can be used for pictures or text.

QuarkXPress® 3.0, most of these jobs have been climi- and Pagemaker do not have. QuarkXPress® 3.0 has a spell checker for single word, single files, and the whole document. It also has a library for items that are used periodically, such as picture boxes, images, and typefaced material. Along with these features there is a lock to baseline function that allows all the text to be lined up.

Some of Quark's disadvantages include the fact that With Ventura and Pagemaker, there are similar things you do not have a selected list of down loaded text files, but evened out by the fact that equal It also has a library for

amounts of space are left on both sides of a document for extra files. Another missing feature is the tag list. On QuarkXPress® 3.0 this is called style sheets and is located inside another menu. This is subsided by the fact that the style sheets

can be assigned an F-key. Highlighted text can be changed to a different font by the touch of a single but-One of the other extra features on QuarkXPress® 3.0

includes a box rotation tool. This allows images and text to be rotated at any angle. There are many different types

Printing

Affordable color scanning available with the Geniscan

...16.8 million colors is

better than 4096, but a

1280 by 1024 image

would take 31

megabytes to store...

by Joe Cambron Data Tech Editor

and more common on computer desktops, they are also becoming more and more inexpensive. This article will detail a new offering from Genius in the handheld color scanner market.

The Geniscan Color Hand Scanner is the company's first foray into full-color scanning, but the company is also wellknown for its mice and non-color scanners. Genius products all share one common bond, they are inexpensive. Some people label them "cheap", but that title does not apply to the company's color

Hand Scanning

For those unfamiliar with "hand-scanning", it is not a braille reading technique, but it works very similarly. The scanner is rolled along a page of paper. As it is rolled, the images beneath it are input into the scanner through a lighted clear panel that is able to differentiate between shades of gray or in this case, colors. Width

The difficulties in using a hand scanner are numerous. The most obvious problem is that most are not wide enough to scan an eight and one-half by 11 inch page. This problem can be overcome by merging two adjacent scans together, good software can do this automatically. Uneven scanning

Another problem is commonly called finished product, at least not the need to can discern in a typical 35mm photograph. "uneven scanning". The other common Color scanners are now becoming more type of scanners are called flatbed these scanners. These work much like copiers, some even perform both functions, and they eliminate "uneven scanning." Scanning on a budget of under \$1250, though, climinates the case of flatbed simplicity. This simplicity is replaced by the grace of the human hand, or the lack of it.

> same speed and in a straight line down the

Desk top publishing

software is used to

design page layouts

Some devices aid you in your task if you choose to buy them. Tracks can be laid down on the page, so your scanner plods ahead like

the Chattanooga Choo-Choo, but speed since a 200 dip Geniscan 4096 color must still be maintained at an even rate and tracks do not solve this problem.

As difficult as this process seems, practice does make perfect, unless you recently quit smoking, of course.

The Genius Color Scanner is priced between \$499 and \$599 depending upon where one buys it and what options are agreed to.

Memory hogging

Another problem with any kind of graphics scanning is memory and screen size. A flatbed scanner can just scan an image. There is really no need to see the

merge it or cut out the scan you made of In fact, at 1280 by 1024 resolution, comyour table top. A hand scanner requires the image to be viewed. The problem is that some scanners have as much as 800 dot per inch (DPI) resolution (the Genius accepts up to 400 dip in gray mode and 200 dip in color) and even a VGA monitor only has about 60 DIP

Items such as picture

boxes ...

The effect of this is that at 800 dip a One must roll the scanner at close to the VGA screen can only display about one

square inch of an image. With only one to five percent of an image visible on the screen at any one time editing becomes very

Having lots of memory is also imperative

image of four inches by 4 inches can take up as much as 3.8 megabytes. It is not always necessary to have this much memory in RAM, though. Using the Color Maestro software that comes with the program, images may be "buffered" to the hard drive, but a loss of speed is the penalty. Files that are saved can also be compressed or scaled down reduce their size. This memory problem also rears its head in two other cases.

A growing phenomena is what is called "24 bit color". This technique can approximate the number of colors the human eye

puters can display an image identical to a 35mm image. Many scanners now offer 24 bit color, but watch out.

24 bit images take twice the space to store that the 12 bit images the Geniscan produces use. True, 16.8 million colors is better than 4096, but a 1280 by 1024 image would take 31 megabytes to store uncompressed.

Printing color images is another distinct problem. No one does it, so do not buy one unless you are happy with the screen. A color ink jet printer does a reasonable job with small images using a few colors, but printing a full page graphic at 300 dip and 4096 colors (the default on most good printers) would take 50 megabytes of printer memory which you are not going to find on this side of Florida. The Geniscan

The Genius is a nice toy at a reasonable price. Its only real problems are a propensity to darken photos, a dislike for magazines (an uneven surface) and a painful installation procedure which can result in conflicts with other devices in your com-

The product is well built and presents excellent output if used with steady hands. It is available for between \$500 and \$650 depending upon where you buy it and

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Compucom drops prices on modems

CompuCom has now announced two AFFORD. ABLE, multistandard high speed modems. The Storm(tm) is a dual protocol high-speed modeling supporting two high-speed modem standards CCITT v.32/v.42bis and CompuCom CSP, along with Fax and Voice Mail. It is the first v.32 to provide this capability...total communications capabili ty. It costs an incredibly low \$389. Those wishing v.32, v.42, v.42/bis and CSP modern functions may purchase the Storm without the Fax and Voice mail option for only \$299. A caller identification option is also available. The SpeedModern Challengerium adds v.32/bis for 300-14,400 bps modem speed with data speeds up to 57,600 bps with v.42/bis. At \$499 it is by far the lowest cost V.32/bis modes

The Bulletin Board Operator (Sysop) price is 5199 for the Storm and \$299 for the Challenger This pricing is available to qualified sysops, only It is on a first qualified first shipped basis with priority given to sysops already in CompaCom's sysop program. The expected ship date is September 1991.

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American Red Cross



Give Blood "On balance, the hub has

not been making

money..."

Robert Hawkins

AVIATION BUSINESS— USAir woes plague Charlotte

Charlotte-Douglas International Airport is bracing for possible bad news as USAir, which has its biggest hub in Charlotte, faces two years of losses expected to total \$1

"The prospect is frightening," said Jerry Orr, Charlotte aviation take that kind of hit."

director, "As in any business, we have contingency plans. We would not discuss them publicly any more than Gen. (Norman)

Schwarzkopf would discuss his plans the night before battle."

USAir flies 468 jet and commuter flights out of Charlotte daily and will fly 14.8 million passengers from there this year. The flights would decrease significantly if the airport were not a hub for USAir or another carrier, analysts say. Only one in five travelers leaving Charlotte starts his trip there.

Meanwhile, American Airlines introduced a revised schedule at Raleigh-Durham International Airport, part of an effort to reverse that hub's lagging performance.

USAir will ask workers to take pay cuts and make other sacrifices. employee representatives and others

Analysts and employees have speculated that USAir may seek bankruptcy protection next year.

whether he obtains federal subsi-

Carl Strombitski of Pacific

Coast Airlines said a pilot, co-

pilot, ticket manager and station

agent have been hired in hopes of

returning daily service by the end

south of Tulsa, lost federally subsidized air service in

January 1990 when the Department of Transportation

cut its Essential Air Service program under congres-

"The traffic they had there wasn't a lot, but it was

of the month.

sional budget mandates.

"Projected losses of \$500 million and stay later at major cities in the this year with no improvement next year is bad, bad news for the viability of the airline," Scott Hamilton, editor of an industry journal called Commercial Aviation Report, said Monday. "Their balance sheet can't

> USAir president and chief executive Seth Schofield said he and other executives in the next few weeks would ask workers to

help reduce com-

pany costs. USAir spokesman Larry Pickett said Monday the company would not elaborate, but union leaders said they had been briefed by Schofield

They said Schofield outlined measures likely to include:

. Up to 10 percent pay cuts for all; . Reduced medical insurance, or greater employee contributions for existing coverage; and

"pension freeze."

"We have 7,000 people who work of a group that represents USAir pilots in Charlotte. "There would be a lot fewer groceries bought, a lot fewer kids in the schools."

American Airlines' new schedule at RDU caters to business travelers has to make money like the rest of who want to arrive earlier in the day our hubs," Hawkins said.

Pacific Coast Airlines plans to service Tulsa

TULSA, Okla. (AP) The president of a California- acceptable," Strombitski told The Tulsa Tribune in a

based airline promises to restore commuter service story Thursday, "But that was a year and a half ago, The

between Tulsa, McAlester and Dallas regardless of economy has picked up and if the Fed drops interest

"The traffic they had there

wasn't a lot, but it was

acceptable,"

McAlester, a town of about 17,000 located 100 miles month of service. The airline never had more than 188

Carl Strombitski

Personnel have been hired to serve the smaller communities

Northeast, Flights to leisure destinations in Florida and the Caribbean will depart later in the day.

Since it opened its RDU hub in 1987, American has generated most of its business from leisure travelers. They typically seek discount air fares and generate fewer profits for

American expects its mix of travelers will switch with the schedule change: Most travelers will be business executives, who pay more for their tickets because they travel during the week and buy tickets just before departing.

The hub did not turn a profit until

"On balance, the hub has not been making money," said Robert Hawkins, American's Southeastern sales manager. He said the flight schedule was designed to turn around those losses. But he said the auccess of those changes would not determine whether the hub would remain open.

Last year, American considered . What company officials called a closing the RDU hub and moving its operations to Atlanta.

But the airline concluded such a here," said Dennis Harris, chairman move would be expensive. The company chose instead to step up marketing and overhaul the flight schedule.

> We are not walking away from the hub, but at some point the hub

rates, it could be a lot better."

serve McAlester.

passengers per month during its four years of service.

Okla., and McAlester Mayor Thomas Glenn have writ-

ten DOT urging it to restore subsidized air service to

Sen. David Boren, D-Okla., Rep. Bill Brewster, D-

Stillwater-based Exec Express

Philip Trenary, former Exec

Express president, said the com-

muter express had 152 passen-

gers in December 1989, its last

See Pacific Coast, page 87

was the last commuter airline to



Recessed...

Boeing has firm contracts for the new triple seven, but industry officials are not as optimistic as Boeing. American Airlines has suggested slowing down production.

Boeing 777 may see hard times

SEATTLE (AP) American has been expected. Airlines chairman Robert Crandall uses words like "terrific" in describing the Boeing Co.'s new 777 twin-

But he says his airline isn't likely to order any for at least several years

because the 350seat plane will be too big for an airline industry plagued by economic weakness and slowing passenger growth.

"If you look at the numbers, (the

777) is a terrific airplane," he said Tuesday, "The problem with the triple-seven has nothing to do with the airplane and everything to do with the market."

American is one of eight curriers advising Boeing on the design of the plans to introduce in 1995.

The jet was designed to fill an expected demand for an efficient, twin-engine plane that could carry more people than a Boeing 767 but fewer than a 747.

But despite rapid industry growth in the 1980s, Crandall is pessimistic air travel will expand as quickly as

The recession and the Gulf War

Boeing has firm

orders for 72 of the

an additional 65...

sent air traffic plummeting.

and as we look at the next three to four years it seems to us that airline traffic is likely to grow less rapidly

than most people believe, Crandall said. Even if the recession cases, air-777s, plus options for lines are going to be forced to mise ticket prices to return to prof-

itability and that will reduce demand, he said. "Now if that's the case our ability

to grow into a bigger plane is going to be limited," he said. More mid-sized cities like

Memphis and Kansas City, Mo., likely will attract airlines to use their plane the aerospace manufacturer airports as "hubs," he suggested, a move that will splinter the market

'The average airplane size will decrease, as opposed to increase," Crandall said, adding, "I am certain demand from all of our customers, the triple-seven will be a success. I'm just not sure when, I don't think the guys at Boeing are sure either."

But Boeing spokeswoman Donna

Mikov said: "We continue to be confident there is a market for the 777. All I can say is we're continu-"You've got rapidly rising costs ing to work with American in the design of the 777.

> Boeing has firm orders for 72 of the 777s, plus options for an additional 65.

> Crandall also suggested that Boeing and other aircraft manufacturers should consider slowing down production to match declines in the air travel industry. He said he told Boeing.

> Industrie that American will buy planes it has on firm order. But slowed growth could prevent it from exercising options for more planes in the next two years, he said.

> McDonnell Douglas and Airbus

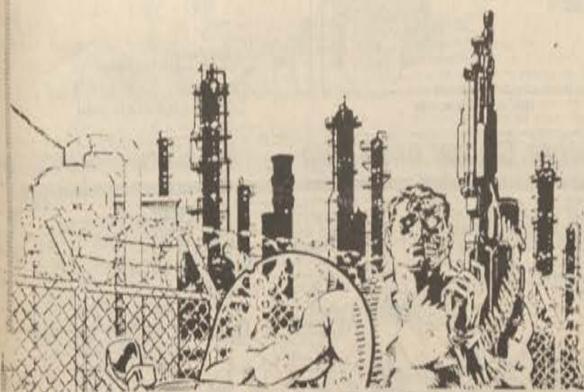
American has 24 Boeing 767s and 48 757s on firm order. Under option are 20 767s and 33 757s.

Craig Martin, spokesman for Boeing Commercial Airplane Group, said Boeing produces about 38 planes a month and is always evaluating its production rates,

"We have to balance them with not just one," Martin said.

Crandall was in Seattle to launch American's new Seattle-to-Tokyo service, which began Tuesday.

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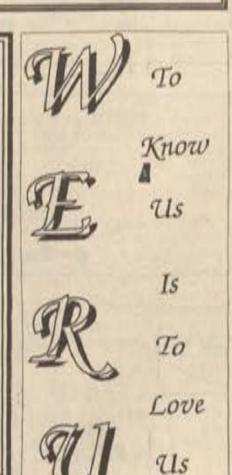
Center just west of the elevator. you can call us at 226-6049.

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OR LEAVE A MESSAGE



SIGNE

LOCK AT THAT THING IN

A FOSSIL!

Calvin and Hobbes

M DECLARING

THE CREEK

BACK IN THE WOODS

CAN HORBES AND I GO PLAN IN THE RAIN, MON?

WANT TO GO SPELUNIONG WITH ME?

CALVINS COST

by Bill Waterson

HAD SOME

RELIGIOUS

FUNCTION

I WONDER WHAT PECULIAR ANIMAL THIS WAS BUT ITS NOT A BONE IT HUNTING WEAPON OR EATING UTENSIL FOR CAVE MEN.



















I JUST DO THAT TO HELP HIM APPRICIATE THE WEEKENDS MORE



THIS EXPLAINS MHA ADUS

ON THE FLOOR



Group photo disasters



by Gary Larson

Where the deer and the antelope work



Durango, Mexico, circa 1880: Juan Sanchez cruises through town on the first low-rider.



in what was destined to be a short-lived spectacle, a chicken, suspended by a balloon, floated through the Samural bar's doorway.



Milli Vaniili's bird, Lilly

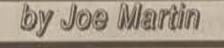


Omens (and their meanings)

Mister Boffo

LOANS NO RED TAPE

ISN'T IT









Mother Goose and Grim



by Mike Peters











+Autos for sale

1999 Sunki Samuari Jeep, 5 apd, convertible. 10h 10p, pull out Pieneur stemo. Call (407) ma-1710 to make offer.

1883 Honda Civic, good condition, must sellpat, \$1000 OBO. Call after 6 p.m. 258-2848.

1984 Buick LeSahre Limited, White on Fortale: 64" surfloard \$100, Call 248-0718. white, loaded, C.B. radio and new battery, glod tires, 53200. Call 767-9400 7 a.m. to 1

1986 Pontisc Piero SR-2MCl, 6 cyl, 4 spd, AC, AM/FM case, new rubber, gold and tan, 40K, 322-0072 leave message. Must see.

1900 Bright red Cavalier, good condition, 35,000 miles, \$7000 OBO, Call Corey 239-

1925 Muntang GT, 5.0, 5 spd, 16" wheels, white with grey int, \$4200 OBO, Call 760-

1909 Mustang, 502 st. Holley 650 D.P., Billobrock Performer intake, new radiator, arking \$800. Call 259-1583.

1983 Toyota Camry, 5 spd, high miles, oil charged every 3000 mi, very good condition, viry reliable, \$2400. Moving. Call Luke 677-

1973 Irep CJ 5, new origins and transmission, great condition, \$3000 OBO, or contider uale for a cheap car and cash. Call 248-0718.

1681 Audi 5000%, excellent condition, must ssi, mend minon, \$2000 OHO. Call 756-3298.

1982 Pard Hocory, \$800, Call Jose at 248-

1928 Nmjs 750R, 6900 miles, excellent sons, without a scratch! Includes tank cover, take cover and Bell belmes, \$3600. Call 760-

1939 Yamalıs FZR 1000, new rear tire, alip on header and extra wieslabield, \$5000. Call John at 258-8524.

1974 CH 650 Hunds mutorcycle, decent thaps, runs well, excellent cheap transportation, \$500 Olio. Contact Jeff at

+ Roomates & Rental

Rinded 3 recommutes to share a 5 by, 4 bath, 2 kinden house on the beacheide. Rent is only 162 mo, and 1/6 utilities. Security deposit. Sall for more info. 255-8667 or box 6393.

House for sale, clean 8 room, 2 both, large 998t, lot of trees, \$44500, Call 253-1999 seytime.

tree room in condo across from Onnord Beach Habyatting needed during afternoon and avening bours, Will provide noom free bet babyening. Call Mr. Walnes at 257-4195 (Bulk Lindsey).

and various other outings. They

stress academics and offer help to

members with study periods periodi-

cally. This is the bases for fraterni-

lies around the country, and it is

At Embry-Riddle there are seven

finternities and one sorority. Since

1970, fraternity alumni has reached

4,000. With 200 existing members

if the Greek society, each individual

fraiernity has done a considerable

amount of good that has never been

300 pints of blood during their

blood drives held twice each

semester. Delta Chi, Kappa Alphi

18st and the sorority Theta Phi Alpha

much the same here on campus,

Army annually, Lambda Chi Alpha Greek has adopted a highway and cleans (odntinued from page A6) this portion of road. Alpha Eta Rho

Roommuse needed for townhome, 2 bed, 2 bath, wusher/deyer, TV, kischen supplies, 10 min. from ERAU. \$210 plus 1/2 utilities. Call.

Misc. for sale

For sale: Commodore 64 w/ disk drive, and more than 50 games. \$150. Call Jose at 248-

For sale: Sanyo Cassette deck \$50 OBO. Must self. Call after 6 p.m. 258-2848.

For salw: Tasco Telescope, great condition, like new, 3 lenses, tripod, and gear. Great for star gazing on the beach, asking \$175, was \$290 new. Call Pete at 677-8377.

For sale: couch with a queen sixed hideshod \$75, single mattress/box springs set \$50. Call Tom ext. 6601 or 1-738-9731. Can deliver. IBM 5051: 2 floppy drives, color moniter, dot

lingagement ring/wedding ring combo. .47k.

diamond, \$600. Call John 258-8524.

For sale; sleeper sofa with two matching chairs, good for students, \$100 OBO, Call Stu-

For Sale Roland June 106, full size, programmable synthesizer, MIDI, 2 foot pedals, 2 storage banks w / 64 patches each. Must see! \$600 OBO, Call 760-3219 or box

New P-40 Warhawk gaint scale R/C, 5th scale, needs minor work to get flying, takes 2.0 - 4.0 ca. in, engine (32 - 65 cc) \$125. Call 760-3219 or box 4412.

Laptop Laser PC - 3, 32K ROM, expansion port (serial and parallel) printer cable, PC communication cable, PC tools included. \$110. Call 760-3129 or box 4412.

Color printer, 36 pin printhead prints all colors in one pass. IBM, Awiga and Apple Compatible (Centrouts interface) Priced to sell \$75. Call 760-3219 or box 4412.

Four 31 X 10.5 Dunlap Radal Rover Tires with theome rims, excellent condition. \$250 OBO. Contact Jeff at 788-4634.

For sale: Sig Sauer P226 9mm new in box. Also, Springfield P9C 9mm, excellent cond.

Apple Ilgs computer, printer, word processor, games, \$850 OBO, 252-0637.

For sale: IBM XT W/monitor, software, mouse \$600, Honda Scooter steree \$125, stereo cabinet \$15, Averar \$10, motorcycle fairing \$25, Call 767-4442 ask for Kat.

Amigs 2000 hardware: Commodore AT bridgeboard \$300, GVP series II HC+8 SCS1 controller 5125, Commodore multi-serial card \$175, Macintosh serial to standard 25 pin RS232 cable (6ft.) \$15, Pro-3d scanner with

Complete Terminator 2 movie manuscript. With scane numbers, camera angles, etc. T2 9-10-90 movie revision final \$8.00. Call 760-

helped in cleaning this area's beach-

es, and Sigma Phi Delta and Sigma

Pi has done numerous community

a new door and open your minds

with respect to campus fraternities,"

He stresses that fraternities are dif-

ferent, but no better than anyone

else, they are just taking a different

Lefebvre went on to say, "So the

next time something bad is rumored

more into the situation before mak-

ing any false accusations. The entire

fraternity should not be judged by

the actions of the individual mem-

route to achieve independence.

Lefebyre urges students to, "open

services.

heard. Sigma Chi collected almost or printed about a fraternity, look

donate clothing to the Salvation ber, but as the group as a whole."

For sale: waterbed, king size, excellent condition, \$150 OBO, directs set, glass table, brass legs and chairs, very nice \$150 OBO. Call Kevin 756-1957 or 756-1494.

Must sell: David Clark H10-40, exc. cond. \$200, Large deak w/chair 560, small deak w/chair \$40, stop light \$40. Must sell fast, Call Paul at 14# 252-9714 or W# 255-8722.

Segs Genesis entertainment system, 2 controllers, Golden Axe, Pat Railly Basketball, Tommy Lasorda Baseball, Altered Beast, practially all new, 3250. Contact Steve B. Box 5144 or 226-6539 and leave message.

Moving, must sell housefull of furniture, waterbeds, appliances, excersize equipment, TV's, lamps, deaks, tables, etc, etc. Call Jon. for more details. Everything in good or excellent cond. and priced very low. 788-

5400, Call 255-1995.

matrix printer, expansion cards and software

Smith & Wesson 44 magnum 5300, Uzi Carbine 9mm (2 months old) 5850, Beretta 92FS with laser \$850. Call Rob for details 760 - 4895

Multi time, \$90 per hour, includes dual time and fuel. Airplane based at Daytona Beach Airport. Whether you are looking for an additional rating, want to build multi time or rightsee. Fly in a 1980 IFR aquipped, low time Beecheraft Dochess. Best rate anywhere! Call John at 253-9607 or box

HINSTEIN

Hingsein x man?

WOODY SAYS:

revolve around her!

DHAR WOODY,

THE AVION

RIKER

PICARD

personal shuttle.)

the Federation.

midnight pienic

TO ALL PENCERS

SNAOGLEFLASHTELLI

STARFLEIT COMMAND

CATTAN HIGH COUNSEL.

WOODY -

WOODY

kinds of wood you forgot: drift wood, and

woodpecker, both of which would make

How many Riddle women does it take to

screw in a light bulb? Just one; all she does is

hold the bulb and waits for the world to

Are you that threatened by women pilots?

Wern you dumped by a woman piles, or are

you jealous because a woman got a job you

wanted? I'll drop to your level - the only

'woodpecker" that'll be in the cockpit is the

one you possess. Who needs sexism or close-

Give it up. You're not getting laid now and

you never will with your attitude. We are

Congratulations on your locating me. It is,

however, not difficult since all subspace

messages are required to carry that

information. Did you hear the Overlond?

I meant no insult. Rather, I was stating that

you were correct and that I was harty in my

judgement. You do indeed have great

knowledge and a superb ship. (PS- Nice

We are deeply hun that such accusations

would be made against us. Calt has been a

faithful member of the Federation for over 80

years. Be assured that we have no

connections to anyone who would attempt,

directly or indirectly, to discredit or damage

Well, we're waiting to learn! Teach us!

I was wondering if you had a free night sometime this semester. Maybe we could go for a long walk on the moonlit beach and/or a

Sounds like a serious threat...NOT1

SNAGGLEFLASHTELLI

minded thinking on this business?

tired of hearing your single adages.

New club! If you're interested in playing frishes on the Ultimate level, call me, Bill Lawerence, at 756-1541, or drop a note in my box 6273. Please include a phone number and or box number so I can comen you for more information:

Glider instruction and rides, call for details, Draw 788-6635 or box 3394.

To anyone who has rollerblades (in line skates) or anyone interested in learning, contact Brian at box 6139 or come out to basketball court by the tennis courts on Friday, Oct. 12 at 6 p.m. (weather permitting).

Improve your French with a native speaker from France, \$5/hour reading and speaking. For more information call (Jean Baptiste) John at 255-9574.

I need a ride to Pittsburgh, Pa. over Thankagiving break, leaving and arriving is flexible. Contact Rob at box 5238.

CLASSIFIED AD POLICY

Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with 35 word limit.

All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.

Commercial advertising is available through the Avion advertising department, at 226-6051.

Classified advertising is carried out by filling out a classified ad card in the Avion office.

Only one classified ad per card. Name and address of advertiser must be included for the ad to run.

Only paid ads will run fror two issues and may be renewed by filling out another classified ad card.

No classified ads will be accepted over the phone. For more informantion, stop by or call the Avian office

at (904)226-6049

→ Miscellaneous

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Mars

(continued from page 83)

tors or nuclear power.

Get your pilots license or continue with your flight training. Quality instruction at low rates. Aircraft rental \$36/hr. Train at a local airport. Contact Jack "CFII" at 756-1494.

Anyone going to New York area for D Thanksgiving. Will split cort. Call 767-4442 ask for Kat.

Airline tickets for Thankagiving, Nov. 27 Dec 1. Daytona-Newark NJ, Newark NJ-Daytaona. Cost over \$300, will take \$200. Call John 239-8789 or box 7774.

John's Mig Welding and Volvo repair. Call

interested please contact Bill Lawrence at 756-1541 or box 6273.

But Mitchell said systems that

rely on sunlight for energy would be

not be feasible in space due to dead-

ly solar flares, frequent meteor

showers and intense radiation, all

which would penetrate the dome and

"We think it's going to be an

opaque structure, possibly a series

of interconnected modules under-

ground or covered with dirt, or pos-

would be drawn from solar collec-

Purdue experts in a variety of dis-

ciplines are hard at work on the pro-

threaten the lives of astronauts.

+Personals

I love you. You're the best must I could ever ask for. Keep it up, and you may get that A CURIOUS ADMIRIR silver collar you wanted for Christmas! P.T. BEAR

Quality does manue but quantity can enhance quality. By the way, you sound like M.

Your place or mine? (Um, for dinner, I mean...uh...yeah...)

PRIORTY ONE MESSAGE TO STARFLEET SHIPS

New club starting. Need an advisor. If the Remulan neutral zone, Bird-of-prey warships have crossed into Federation space. We have suffered beavy damage. We are un to cont... send help.

YOUR PRINCESS

Researchers are also studying

meals, "I've talked to a lot of astronauts, and they'd like to get away from TV dinner-type fare," Mitchell said, referring to current space food. Purdue officials say their school

It's aeronautics and engineering departments work closely with NASA on a variety of programs. Purdue graduate Mark Brown was a crew member on the shuttle sibly in caves," he said, Energy Discovery in early September.

dents who will actually be the people who build these things," Mitchell said.

TO ALL PENCERS One third through the somester and only three

busted swords and one dead innocent knave to show for it. We must improve, men. We can't let anyone think we've become soft and VALMONT

> WOODYISM Nº 2: When women fly, PHOPLE DIST

Although you are so far away, you are always in my heart. I wish more than anything we could be together so I could show you everyday how much I love you, but for now, words will have to do. You have been averything I could have ever hoped for. "You are my sunshine!" I love you, Tors!

CORRY Einstein (if that even is your real name), two

Where were you friday night for ladies

All the guys up at Frat missed you better co-pilots than a female. P.S. wasn't

TO PICARD

You are given command of a flort consisting of seven starships to investigate Caitian and Romulan Neutral Zone sectors. STARFLEET COMMAND

Immediate instructions are needed or your followers will get confused (excuse me, make that MORE confused). Awaiting your

DOM BULL LOUISE - REPORTING IN AS ORDERED

space messages do not require location information. Yes, the OVERLORD is a serious problem, since he has the capibility of RIKER

CATTIAN HIGH COUNSEL

Correction, Calt was offered membership in: the l'ederation 80 years ago, but did not receive full membership until 30 years ago. when you severed all ties with the Ronularia.

CAPTAIN SNAGGLEFLASHTILLL Are sensors indicate, suprisingly, that you are near the Romalan neutral zone and in the area. of the U.S.S. Ranger, This would be a min opportunity for you to prove to Starflest that Can is not aligned with the Romulans. You are the closest ship to them, as we are 3 days at maximum warp away from them. As you are only several hours away, please investigate the situation.

So, are we still on for the record or what? Haven't seen much of you lately.

Take a hint and quit regging on women pilots OVIRLORD

I wish I had the words to say what needs to in-

P.S. The answer is yes. I guess I'll have to

live with that.

TO ALL PENCERS. Mgh Hou arr tpth pthosy. I'm mary, at a MORTY

Feel tike taking a walk? Put a picture in our box to I know you when I see you. And heabout a box # T-5651

You owe me one.

Pacific Coast

DOT's Essential Air Service division, said officials will reconsider the McAlester appeal for subsidized service exclusively from Pacific

eligibility on its merits," Bingham

But Strombitski said he plans to go ahead with his proposal regardless of DOT's decision.

when the government terminated the

Awareness (continued from page A7)

Richard Stone of Delta Airlines will speak about substance awareness and pilots. He is a member of Embry-Riddle's Aeronautical Science Advisory Board and will also be speaking to some Aeronautical Science classes during his visit to Embry-Riddle.

sponsored by the SGA Entertainment Committee and the Substance Awareness Committee and is titled, "The Doors", The movie is about the music group the Doors and the tragic loss of their lead singer, "Jim Morrison" and starts at 8:30 p.m. in the Student Center.

perform a short skit at 5:30 in SC about Substance Awareness, immedistely prior to the Attitude Adjustment. "Lynn and Friends" is the title of the co-sponsored Attitude Adjustment of the Substance Awareness Committee and SGA Entertainment.

EAS program," he said. "I have transferred aircraft, opened offices We are committed to providing them air service.

A recorded telephone message at the company's office in McAlester indicates it will be open in a faw weeks, and to call Pacific Coast's offices in Newport Beach, Calif., for-

Pacific Coast, a privately owned company, operates several flights daily between Los Angeles International and airports in Palmi Springs, Orange County and Catalina Island.

alcohol will be served during University functions... we're going to give non-alcoholic beer for free. Henricks also indicated that and will also be sold. Henricks continued, "We're giving away the beer to encourage students to try it. More should buy it this way.

Awareness Committee is chaired by Becky Robertson, Associate Dean of Students, and is comprised of representatives from Health Services, Athletics, Student Activities, Housing and the student body.

awareness table will be set up in the Student Center. It will have current information concerning drug and alcohol awareness, "We have a lot of giveaways during the week like sports drink bottles, key chains and pens and substance abuse information cards," according to Henricks.

occurs twice a year at Embry Riddle, once during the Fall and once in the Spring. Students are invited to participate in the multitude of activities which will occur during the week by the Substance Awareness Committee,

Profile

(continued from page A6)

"I feel that if you challenge the student and Provide the environment for motivation through Aftersing the significance and importance of knowledge and success for themselves, not for their parents, me or the school," Obi claimed, then the student will have the opportunity to do

Well. Obi stated he uses several techniques for this. lirchas, he uses catchy slogans like, "This is college," "Four stars," etc. to grab the attention of the students. He also employs body gestures and actrobatic moves to stress points and awake or focus the class onto a specific point in his lecture.

He added that his teaching does not end in the classroom. Obi said that activities, instruction, advice, counseling, mentoring, etc., above and beyond the call of duty are a part of his standard Prictice at Embry-Riddle. From Brothers of the Wind, Management Club

and Omicron Delta Kappa to the new African club, Obi commented that he is involved with Mudents on a close basis. Obi further explained his strategy in class, "I believe that every lecture is a performance and I do not want to flop. I can not go into class withour fully researching my topic." He said that he

generally will not read from a textbook in class.

On reading textbooks in class, he said, "It is a waste of time to read a textbook in class. Students should prepare and do the homework so that the lecture can be my own. I force everybody (in the class] to participate," claimed Obi, "by taking away their fears and misconceptions."

Obi stressed that the students should understand where their learning will lead them. Obi invites Alumni which he knows to return and speak to his classes to do this. This also serves to provide the student with realistic expectations about what it takes to be successful, according to

body are as follows: "I dislike student apathy, I regret that I have not been able to explain to the students what a non-profit organization means, on a participation level. It is the responsibility of everyone, including the customers, to participate in the growth, development and contributions in a non-profit organization. It is not just the administrators' responsibility... We are all responsible for making this environment [Embry-Riddle] function (as we would like it to)."

"Some people get me really upset...," Obi commented, "when they complain without getting involved... There are no stockholders [at Embry-Riddle), here it is everybody's responsibility to be involved, ...'

Obi also mentioned that people skills are prob-

TO THE BARKING DOG

This is the U.S.S. Ranger on border partol at

ways space crew members can readily process the plants into tasty

is the natural site for such a project.

"One of our goals is to train stu-

ably the most important skills to have. Obi said,

Having good people skills is probably the reason

why I have survived. . Finally, Obi was asked by the Avion: What impresses you the most about Embry-Riddle? Obi responded that one night he returned to the University late in the evening a couple of weeks ago. He said that he was completely surprised to see that almost all of the academic classrooms and buildings were full of the activities of clubs

and organizations.

Obi's attitude is involved dedication to the full education of the students who he is entrusted to Obi's advice and comments to the student teach. Obi believes in respect for authority and not being anti-establishment. Obi concluded by quoting Dr. Whitmer, who once told him, "Give everything your best effort,"

Obi graduated from Embry-Riddle with a Bachelor of Science in Aviation Management in 1978. He then received a Master's of Business Administration with Aviation Applications in 1979 from Embry-Riddle. Obi is presently working on his Doctorate of Business Administration with Nova University,

which he started a year or so ago. Ohi also helps

design and monitor MS 314 (Human Resource

Management) and MS 401 (Management

Planning and Control) for Embry-Riddle's

College of Continuing Education.

(Continued from page B5) McAlester.

Coast's proposal. "We will consider McAlester's

"I think McAlester got a raw deal

movie passes. Wednesday, October 16, Captain

Thursday's movie will be co-

On Friday, the Drama club will

Henricks commented, "Since dur-

ISNAGOLEFLASHTELL

In regard to your incorrect information subdisrepting all subspace transmissions.

STARFLEET COMAND

WOODY

Doesn't matter. Maybe two dinners?

said. If I only could explain what I see in your HARRY

BORING ALICE

VALMONT

Bill Bingham, chief analyst for

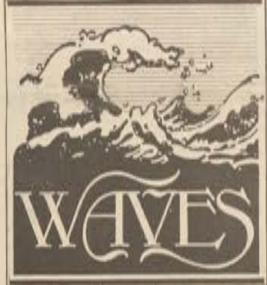
ing substance awareness week, no

job inquiries and other information.

The Embry-Riddle Substance

During the week, a substanti-Substance Awareness week

Recreational Flights Leaving Daily.



Sunday

Laser Karoake Night.

Tuesday

Two for Tuesday - \$ 2.00 well drinks until close ERAU Night - .50¢ drafts for ERAU students.
\$3.50 Pitchers of Draft.

Wednesday

Country Music Night with Station 98 Frog.

Thursday

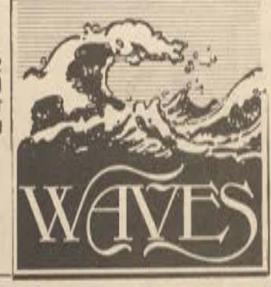
Drink and Drown

10.00 cover and all-youcan drink (No bottle beer, cordials or frozen drinks). Friday

Waves Hungry Hour 5-8 PM \$2.00 Cover - Hot & Cold buffet, \$2.50 well drinks, \$1.00 draft beers, and live entertainment. Live music by "Just 2 Much" 10:00 PM - 2:00 AM. Top 40 dance & rock music. \$1.75 Coronas and \$1.00 Tequilla Shooters.

Saturday

Live music by "Just 2 Much" 10:00 PM - 2:00 AM - I-100 host the "Heart Throb" game beginning October 12th.



Take a break from the books and take off to a party ... A party just for you...ERAU Night happens every Tuesday Night with contests & giveaways and .50¢ drafts when showing your I.D. But every night at waves is hot! Dance to the latest sounds, enjoy great drink prices and live music every Friday & Saturday nights - so come to Waves tonight and make the right approach to a great night out.

DAYTONA BEACH Narriott 100 N. Atlantic Avenue Daytona Beach, FL 32118