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Aeronautica

Volume 67, Issue 8

October 31, 1990

General Spruance sells crash survivability to students

by Hoyt Brown

Aeronautica Editor

Last Thursday, the students in Mr. Mason's Aviation Safety class had the opportunity to listen to a presentation that should change their lives, It was not the ordinary class lecture one might expect, rather the chance to bear Brigadier General William D. Spruance speak enthusiastically on aviation safety and personal safety habits in general. For those of you that have not met or heard General Sprunnce speak in the past, he is the man for which Spruance Hall is named. He is also a Chairman Emeritus of Embry-Riddle,

The main thrust of General Spruance's speech was how he survived a T-33 crash in June 1961. General Spruance was sitting in the rear seat of the two-seat jet trainer, preparing to take off for a routine cross continent flight, taking the usual protake-off precautions; tightening lap and shoulder harnesses, completing checklist items and adjusting helmet and seat position. Shortly after take off, the engine quit without warning, at 150 feet above the ground. While the pilot of the crippled T-33 tried to restart the engine. General Spruance prepared himself for the upcoming off-field landing into a line of dense trees. Upon impact, the General's helmet left his head, Spriance could see that the front seat his hand while the circulation to his

impact, and he felt the oaset of cuphoria, which signaled him to take the advice he received from General George Patton, "In an emergency, don't just sit there! Do something! Don't panie!"

Luckity, Sprunce fud on most of his protective outerwear, less one helmet. Having the proper clothing on provided some shielding from the post-crash fire and probably allowed Spruance enough advantage to swim up to the bank of the creek while the fuel fire burned on top of the water.

Hyen though General Spruance survived the crash he did not walk away unscathed. He was burned severely seatbelt, and if riding a motorcycle,

over many parts of his body, a great deal of the burns covered the upper part of his body and head. His face was so badly burned, that

showed the class a slide of what he who are pilots that 80% of all accilooked like just after he was taken to dents are within two miles of the apthe hospital, it was hardly recognizable as human. He also had numerous reconstructive operations, including one which, to save his left hand, was placed inside his abdomen in order to maintain the blood flow to

stubbed digits were due to the crash fire, but Spruance did not receive any impact related injuries. This was larposition to withstand the crash,

was or that he had some mysterious out" power to survive a crash, but to inform an accident by reducing the possibility of injury before the accident even happens. He suggested that simple riding in a car, like fastening ones

The General also spoke

on the negative effects of

poor health habits, such as

smoking. Smoking deprives

the brain of oxygen.

wearing a properly. adjusted helmet.

Spruance cer. also tookremind those of us

proach/departure end of the runway. duty of those in the crash rescue busi-

trained teams are sitting around unin-

pilot was killed from the force of the upper arm was allowed to recover. All because the pilot in trouble waits too of his injuries, the severe hums and long to declare an emergency. Many pilot have died needlessly due to foolish pride and believing that having to call out the fire trucks gely due to his being in the proper doesn't exhibit "The Right Stuff". General Spruance reminded the class General Spruance did not give this of an aviation emergency axiom to speech to show students how brave he live-by, "When in doubt, call 'em-

The General also spoke on the students that they too could survive of negative effects of poor health habits, such as smoking. Smoking deprives the brain of oxygen, nicotine constricts blood vessels, tar lines the walls precautions should be taken before of the lung and the possibility of heart. disease is far greater for smokers than for non-smokers.

Perhaps Sprumee may be a bit biased when he speaks against smoking, but with very good reason, he lost his wife several years ago to lung can-

On the personal side, General the oc- Sprunce was a superb speaker. He casion to seemed to have this classroom of stadents captivated by his comments, stories and experiences

For those of you that have never thought much about safety, you should hear General Spruance speak He also gave some insight as to the sometime when he is on campus

You will probably come away from Much of the time these specially the experience a changed person, and maybe you might remember someformed of the possibility of a crash, thing he tells you that saves your life,



Safety salesman...

Brigadier General William D. Spruance spoke last Thursday to Mr. Mason's Aviation Safety class. The main thrust of General Spruance's speech was how he survived a T-33 crash in June 1961.

United

O'Hare today ...

United Airlines has placed the largest order of wide-body nouncement, we have made good on 30 747-400s. The Boeing 777 aircraft

bircraft in history. The order includes Boeing's new wide- that promise to equip United with the on firm order will be delivered be-

United Airlines announces largest aircraft order ever

tions, the order for 68 Boeing 777 and conference here. 60 747-400 nircraft, both powered by United's third major aircraft order in for the Boeing 777.

both our record order of 370 narrowbody aircraft, Boeing 737s and 757s, and an additional order for 32 Boeing 767-300s, we said our next step would be to expand and modernize our widebody fleet. With the annewest, most modern and efficient jet tween 1995 and 1998, and in the case

Chicago, October 15, 1990 - United aircraft well into the next century," airlines announced the largest said Stephen M. Wolf, United Airwidebody aircraft order in communer. I mos charman and president, who are cial aviation history. Including op- nounced the aircraft order at a press

"This purchase will allow United to Pratt & Whitney PW4000 engines, is replace older aircraft as well as ex- the new aircraft into its fleet, it will means more service to more destina-18 months. In placing this order, sure that this company is positioned to "Last year, when we announced order is significant, it is but one component of a comprehensive strategic plan set in motion at the beginning of

The agreement includes firm orders for 34 Boeing 777s and 30 Boeing 747-400s and options on 34 777s and

of the options, between 1998 and markets alone, we have grown 43 perbetween 1998 and 2004. Wolf said that as United integrates

worth more than \$22 billion, and is pand both its domestic and inter- offer one of the newest and most tions in the world's newest, most modern fleets in the industry. The Booing 777 will replace United a DC-United becomes the launch customer compete aggressively around the 10 aircraft on its domestic routes, as more career opportunities with a comworld," Wolf added, "Although the well as provide significant capacity for expansion. The additional 747-400s joining the 15 to which United revenue grwoth which will be has already committed - six of which reflected in increased shareholder have been received so far - will contique to be used as the primary aircraft for the worldwide expansion of the order and option a total of 559 aircraft airline's international markets.

> "In the second half of 1990, United will be the fastest-growing airline in 400; Boeing 757-200; Boeing 767the U.S.," Wolf said. "In international

2000. United will take delivery of the cent this year - expanding our service 747 400, are tall on diag, order be-tween 1991 and 2001, and the options vice to Europe, which we will more in Asia and Mexico and initiating serthun double in 1991, "For our customers, this order

modern and afficient aircraft," he said "For our 74,000 employees, it means pany committed to the best in quality. For our shareholders, it means more value

With the agreement, United has on in five fleet types: Boeing 737 (-300), -400 and -500 models); Booing 747: 300ER; and now, Booing 777.

Bombardier Learjet presents Model 60 at NBAA

by Greg Naccarate

Editor In Chief The new Model 60 Learlet was unveiled in a

eremony in early October at the 1990 National Business Aircraft Association's annual convention n New Orleans, Louisiana. The President and Chief Executive Officer Brian E. Barents emphasized that a significant feature of the new Model 60 is its powerplants. It has twin Pratt & Whitney 305 engines, each flat rated at 4,400 pounds of thrust up to 80 degrees Fahrenheit."

With these new engines the Bombardier Learjer Model 60 will have a maximum operating speed of B1 Mach or 533 miles per hour.

Certification is anticipated sometime in late 1002, and the aircraft will be approved for flight up 1,000 (cet and will utilize the air space between The engines are the hard selling point for this new generation of Learjet, and Barents referring to this

Learjet.

Range for the Model 60 will be 2,740 nautical miles with VFR reserves. On a typical mission, the Model 60 will fly from New York to Los Angeles 2,150 nautical miles against 85 percent Boeing winds with IFR reserves.

The Learget is like its predecessors in that the "I" tail, winglets, Doha-Fins and the aerodynamic lines which are characteristic of Learjet models are included in this current model.

In other areas like options and new equipment, the Model 60 is equipped with a truly innovative full time digital "steer by wire" nose wheel steering which digitally computes and monitors all phases FL-410 and FL 510 to capture optimum winds aloft. of taxt, takenff and landing rollout for optimum power-steering control.

notion stated that "It's a high speed, high altitude. digital panel includes a Collina EFIS, dual digital fuel efficient turbofan engine and is just what we air data system, dual navigation and communicawere looking for in our next-generation midsize tion transceivers, a dual attitude heading reference system (AHRS) and an advanced Cottins autopilor.

The luxury of the new Learjet is expanded by multi-functional, fully-reclining seats in the cabin, plus the cabinet storage in the galley provides room for dinnerware, silverware, and glassware settings:

First deliveries of the new Model 60 are expected to take place in September, 1992. The price of a standard equipped airplane will be \$7,900,000.

Learjet Inc. is now owned by Bombardier which also owns Canada Air with this subsidiary making the Challenger, a larger business jet tailored for the major international corporations.

The Model 60 replaces the 55C in the Learjet

Also at the NBAA convention, Learjet an-Standard equipment in the fully integrated, all nounced that the Model 31A will roll out in 1991.



Latest Lear...

The new Model 60 Learjet was unveiled in a ceremony in early October at the 1990 National Business Aircraft Association's annual convention in New Orleans, Louisiana

United Airlines buys parts of Pan Am's world

by Malissa Wolfe Areonautica Writer

United Airlines announced the signing of an agreement with Pan Am on October 23, to acquire Pan Am's rights to fly between five cities in the U.S. Linited will also get the Washington Dulles-Paris Iton. The second phase will be the transfer of the route authority plus substantially all of Pan Am's unused international routes.

United and Pan Am will coordinate schedules at Miami International Airport and to South America from across the West Cost.

United will pay \$400 million for the rights which will triple United's non-stop flights to Europe. This will increase United's European gateways from two ig six. In addition to non-stop flights from Chicago o Frankfurt and Paris: flights will also originate from Washington Dulles to Madrid next spring. Imaterdam, Berlin, Brussels, Hamburg, Helainki,

Munich and Oslo will be served through London. events for United which include a \$22 billion order Paris' Charles de Gaulle Airport will also be served.

In the first phase of this operation Pan Am will transfer two 747-200 series aircraft, its San Francisco facility, and other assets to United for \$110 mil-European route authority from Pan Am to United. The routes include: London Heathrow from New York, Washington D.C., San Francisco, Los Angeles and Scattle. The remaining \$290 million will be covered by the facilities at Heathrow And Dul-

This phase will close as soon the government consents and all approvals are obtained. Pan Am. will retain its authority to London from Detroit and Miami but will move it's London operation to Gatwick Airport.

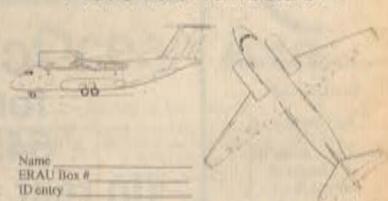
This announcement closes nine days of major

for widebody aircraft, authorization to fly the coveted non-stop Chicago-Tokyo route and nonstop flight between Washington D.C. and Madrid,

Stephen Wolf noted that the facilities at San Francisco and Dulles will enhance service for European and U.S. travelers. "Also, our presence at John F. Kennedy International Airport allows us to initiate service from the largest U.S. European gateway to Heathrow, Europe's largest destination

United said both companies intend to purse obtaining all governmental approvals as promptly as possible, and both believe expeditious treatment would be in the best interests of the traveling public. both here and overseas.

Aero identification



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leaks. Other instruments, such as 17 hydrogen leaks.

detectors, several flowmeters and thermocouple

were also installed in various areas and valves in

Columbia was originally scheduled to fly was

its Astro-1 payload on May 29 of this year, but his

hydrogen concentrations in the aft companies

prevented the launch. After a first tanking test is

June, various roll backs to the Vehicle Assembly

Building (VAB), a launch pad change and that

other unsuccessful launch attempts, it seems

Columbia, mission STS-35, will finally ascend

It appears that as 1990 reaches an end, NASA

will attain full flying status with three functionals

biters. Morale is bound to intensify, and mayer

1991 will outshine 1990, after all, how much pure

does it really take to have a worst year)

effort to pinpoint leaks,

the heavens in December.



Shuttle tested throughly...

Space Shuttle Columbia has finally passed a tanking test which revealed no hydrogen leaks and will be scheduled

for an early December launch.

Spotlight on Wilber... The Hubble Space Telescope is scheduled to

focus on Saturn's newly discovered "Wilber Spot". It was named after

Steuart Wilber, an amateur astronomer who discovered it on September 24

Twenty-one hours later it had grown an additional 2,000 miles. On October

25 the spot had a diameter of over 50,000 miles, larger than Jupiter's "Great

Red Spot" and well over five times larger that Earth. The spot shows char-

acteristics of having raised features and seems almost fluorescent in ap-

pearance. This is the first Saturnian event of this magnitude since 1033 when

Hubble's observing times have been carefully chosen because Saturn's

NASA holds talks on quality and productivity... The seventh

annual NASA/Contractors Conference on quality and productivity took

place in Grenelefe, Fla. (near Orlando) on October 24-25. The conference

featured various panel discussions on the importance of commitment and

leadership in implementing Total Quality Management (TQM) within the

Also, the 1990 Excellence Award recipients were announced. The excel-

lence award, renamed the George M. Low Trophy by NASA Asministrator

Richard H. Truly, recognizes NASA prime contractors, subcontractors and

suppliers for outstanding achievment in quality and productivity improve-

The award recipients were Rockwell International Space Systems

Division, Downey, Calif. and Marotta Scientific Controls, Inc., Montville,

N.J. Rockwell's Space Systems Division provides products and services

ranging from production of the fifth Space Shuttle orbiter to existing orbiter

refurbishment. Marotta provides critical valves and systems for NASA

rapid rotation is making the angle of observation constantly smaller and ob-

astronomers reported a similar phenomenon.

servations progressively more difficult.

NASA team and the aerospace industry.

ment and total quality management.

On October 1, Saturn's "Great White Spot" was over 10,000 miles across.

Space news...

Mission to explore the red planet is go

bertson, Jr., Navy, will be the pilot. Carl Meade, Air

Force, Robert Springer, Marine Corps, and Charles

Gemar, Army, will serve as mission specialists. All

except Covey and Springer will fly into space for

On the same note, space shuttle Columbia, which

was prepared for one of the most elaborate ranking

tests ever conducted at KSC, also passed success-

fully. The test occurred yesterday in an effort to find

any leaks. The orbiter has at last been cleared for

baunch by the end of this year. The Rotating Service Structure (RSS), which covered the orbiter after roll

out to the pad and which was rotated back Monday

in preparation for the test, will be rolled back to

hydrogen into the orbiter's main propulsive system

The tanking test consisted of loading only liquid

For the first time, cameras were installed in

by Russell E. Darling

Space Technology Editor

NASA officials and Department of Defense

(DOD) managers agreed yesterday on November 9

38. This mission will be dedicated to DOD and will

fly with space shuttle Atlauris. A window of four

The decision to resume with the delayed launch

followed the STS-38 Flight Readiness Review

(FRR) at the Kennedy Space Center (KSC) that

took place last Monday and Tuesday. A special

tanking test was conducted on October 24 which Ar-

lantis passed with flying colors. The test was

designed to assure the absence of significant liquid

Atlantis will soar to the sky with a classified

payload and a five man crew. Richard Covey, Air

Force, will command the mission while Frank Cul-

propellant leaks, both hydrogen and oxygen.

Space Technology Writer Mars was named by the Romans after their god of war because of its blood red color. It has long been the source of wonderment for the people of planet Earth

Although many scientists and engineers have been planning for manned missions to Mars for some time, NASA has not yet committed to any plan. A Moon/Mars project, now

called the Human Exploration Initiative. was formally set

speech by President George Bush on July 20, 1989 (the 20th anniversary of the Apollo 11 moon landing). In the speech President Bush stated: "Our goal: to place Americans on Marsand to do it within the working lifetimes of scientists and engineers who will be recruited for the effort

NASA has set an aggressive timetable for the Human Exploration Initiative, with the eventual goal of placing a buman on Mars. Several mission scenarios have been disspace station as a spaceport, estab-Mars, and going directly to Mars

The first Mars mission will be the Mars Observer, which has a definite brunch scheduled for September of 1992. Its primary mission objectives include mapping Mars' distribution of elements and materials, and conducting studies of the climate. The observer will carry a variety of scientific instrumentation packages which should provide some valuable information about the red planer.

cover the orbiter today.

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The next major U.S. mission is the Mars Network The first Mars mission will be

the Mars Observer ...

Mission

in 1998. scheduled for September This misof 1992. sion involves placing 10 to 20 experimental stations on the Martian surface to collect seismology, meteorology, and surface im-

stations, the spacecraft will collect valuable data that is needed before a human mission can be undertaken. This data would include information on landing hazards and the upper atmosphere. NASA scientists and engineers at Ames Research Center are already testing rover prototypes for the Mars

Rover Sample Return mission, which cussed. These include utilizing the intentatively set to take place in 2001. The rovers will be equipped with lishing a Moon base then going on to electronic topographical maps of the Martian surface and several cameras



Mass transportation ...

The proposed Mars rover, designed by NASA, would be agery data. On the way to placing the automated and possibly utilized for an international Mars sample collection venture.

> cial intelligence would be used to guide the rover to its objectives while avoiding obstacles on the planet's surface. The rovers would then Mars, there are several options to be gather samples to be returned to considered and several obstacles in

> NASA says that another important part of this mission will be to make the decisions that will allow the "Hight test technologies that include acrocapture and acramaneuvering, hazard avoidance for landing, auto-

> which would serve as "eyes." Artifi- matic rendezvous and docking, and overcoming the long communications delay time."

Before actually sending humans to overcome. These unmanned missions will provide the information to U.S. to achieve the goal of placing Americans on Mars, set forth by President Bush.

Discovery goes through post flight inspections... Space shuttle Discovery is still going through post flight inspections after its long voyage last October 6. Residual hypergolic propellants have drained from the orbiter. Preparations will begin to remove the right orbital maneuvering System ped and the forward reaction control system. Both vehicle components will be transferred to the Hypergolic Maintenance Facility. Are your car insurance rates

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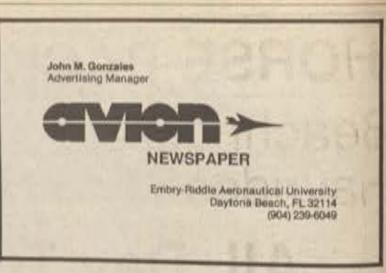
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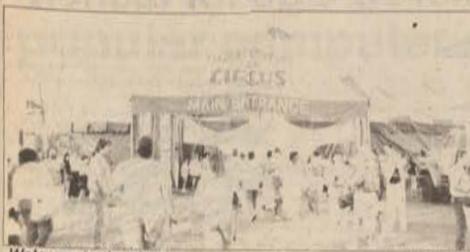


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Behind Wags

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The Avion describes the day the circus came to town



Welcome to the show...

photo by Flob Baserwork Inside the big top, the Clyde Beatty Circus began with the death defying lion tamer and his ferocious felines.

by Hoyt E. Brown Aeronautica Editor

On the outset I was a bit skeptical, "The circus," I said, Why do I have to go to the story on the circus?" I went anyway, and now I'm glad I did.

Before I walked into the big tent I still had my shield of resentment up. After all I am a college senior. I'm not supposed to like circuses anymore. This shield was put away once I stepped out of the bright sunlight, and into the darkness of the big top.

While waiting for my eyes to adjust to the darkness, I let my sense of smell take over for awhile. The sense of smell is a strong one, and one that tends to bring back the most memories of my early childhood. From the moment

I stepped into the tent I could remember what going to the circus was like. There was the smell of the big elephant giving rides to small children, the musty odor of the tent, and the lingering aroma of all their popcorn and hotdogs the vendors were carrying around (and trying to make me very

Once my eyes finished adjusting to dimness of the tent, there were the sounds that I had forgotten about. The chanting requests of the roving vendors. I can still hear them, "Ice cold Cokes!", "Cotton candy, folks!", "Hey! Ice cold snow cones!", and "Popcorn! Get your popcorn here!" (Where have I been all these years?)

This I had noticed all before the show started. You could feel the excitement and anticipation of everyone under the big top. There were parents with their small children hoping to make their little ones first circus experience as memorable as when they had been kids.

The show is getting ready to start

now , the house lights are coming down, A man with a loud booming voice announced over the loud speaker, "Ladies and gentleman, boys and girls! Welcome to the 106th edition of the World's Largest Circus under the Big Top! Presenting the Clyde Beatty-Cole Bros. Circus,"

The Ringmaster walks in under the fanfair of the brass band playing in the background. Jimmy James is a large, rolly-polly and tastefully attired man in red tails with his Ringmaster's whistle in his mouth. He blows it loudly to let

everyone know the show will be beginning now. The children (young and old alike), start perking up as the performance begins with James singing the tune "Consider yourself one of us!"

"The Circus is on parade" is the first item on the program. The performers strut their stuff around he circus rings. There are the performer's dazzling costumes and the trained attention of all the animals. "The clowns, Mommy, look at the clowns!" There is a girl on a trappeze swinging gently high above the ring. Here comesthe elephants, walking trunk to tail around the big tent. Makes you wish you could run away and join the circus.

The first performance on the program is the Amazing Josip Marcan's wild cats. Touted as the largest resemblage of mixed breed

felines performing together on any circus in America today. The big cats file out, the trainer anaps his whips and the animals obey his commands doing tricks inside the rought-iron caged center ring. The lions, tigers, and hybrid Ligera politly sit on their perches, tigers playfully ump over each other, and the group mimultaneously stand on their nind legs Marcan's command, Mar-

can's final trick

is riding on the back of a lion.

"Aerial perch perfection" is the next item on today's agenda. High above Rings One and Three, the La Gills and the Kristos Duo perform feats of aerial artistry and They're up there doing things up there that would make a pilot acrophobic.

A little closer to the ground, amazing, extra-human tricks of balance. Imagine balancing another person on top of yourhead. Now imagine doing it with a pair of large dice between you and the other persons head. How about supporting another person weight with only the strength of

you. They're so playful and cuddly. They've even trained one to ride a motorcycle and another can play basketball with its trainers.

Intermission is next. This gives everyone a chance to tuntamount talent in marriage of athletics and artistry, stretch their legs and get some more snacks. It also gives me the chance to wander over to the far ring and talk to some of the clowns who are signing autographs for the children. Guggles, a younger man in his first year as a clown. I asked him why he joined the circus, he replied, in a non-clown-like way, "I always loved the circus as a kid, and this was the only way I knew to get in". I then asked Guggles what he liked about being with the circus, "The



Premier pachyderms...

The circus' chorus line of trumpeting beasts reminds one of the cafeteria at feeding time.

your toes, throwing the other person into the air and travel" was his answer. catching the other person who is now standing straight up using the bottom of your feet as a floor.

For those who love the divine grace of horses, the next act was for you. The Bale Sisters' trained Arabian Liberty horses are presented in a review of an equestrian processign. These Arabian thoroughbreds perform a majestic pagent of choreographed concentration around the tents

Next, everyones favorite, it's the clowns! Who can't help but to laugh at the troop of pranksters with all of their wacky tomfoolery. The slapstic comedy of these fools with the painted faces leaves a smile everywhere. The big goofy looking clown is persuaded to get into "Ye Olde Reducing Machine" and, with the audiences help, at the count of three he is supposed to exit slim and trim. Then at the count of three there is a bang, and the fat clown comes out not slim and trim, but as a midget.

The "Perch Pole Prodigies" perform a unique show of strength, endurance, and experience all high above the tent floor. It would make an engineer proud.

Ron and Mitzi Iron Jaw, perform the unbelievable, hanging onto a suspended chandelier with only the strength of their jaws to hold themselves up and from falling to the ground below.

The performing bears of Rex and Ingrid Horton are next on the program. These bears are great. Some of their tricks make you wish you could take one of them home with

On the other side was the midget known as Li'l Dave. Li'l Dave Williams has been a professional clown for six years. He told me that he had ran away from home and saw a help wanted ad in the paper. On his first day with the circus Li'l Dave helped with the tent crew, the next day be was given the job as clown and has been doing it ever

I asked Li'l Dave what he liked best about being a clown. "The intermission is the best part. Meeting the kids one-on-one, it's great. I like the ones who aren't afruid Li'l Dave told me that he had a lot of problems with his parents before he joined the circus, but now that he has moved out on his own has helped to work things out. between them. The second half of the show starts with the juggling acts

in all three rings. Now high above the floor, almost to the top of the tent, is the La Kristos Astrocycle, Perched on a thin inclined wire, is a specially modified motorcycle with a perch underneath. The cycle roars up and down the wire while a woman twists and balances on the perch. The last act before the finale, is the "Mammoth Mon-

archs of Asia", the trained elephants under the command of Captain Fred Logan and Family, 35 tons of majestic mastrodons performing to the crowds delight.

The finale is a festive reunion of the entire troop of performers in a star-spangeled salute to the kids in all of

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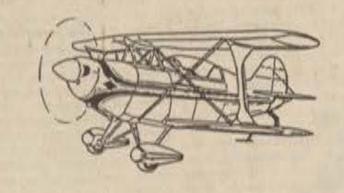
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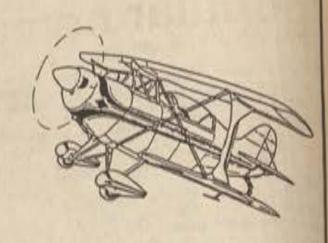
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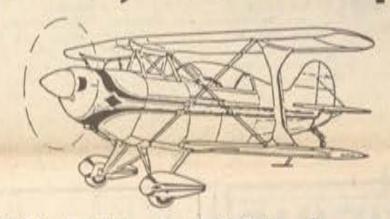


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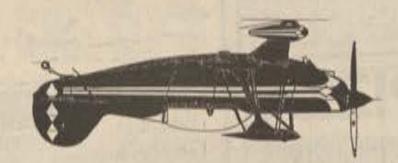
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Welltris adds new dimension to popular computer arcade game

Imagine looking down a well that has four sides sloping down to the bottom. This is the image of playing the new game called Welltris, billed as a product of Russian glastnost.

Recently given a copy of the new game, I immediately tried it and found it an excellent pastime. I was pleased that even the manual was

I have hardly played Tetris, the earlier and simpler version of the geometric puzzle, but much prefer this newer three dimensional version. I think it is easier, although more complex.

Terris is a game in which one tries to drop various shaped blocks and lines or angles of blocks down one wall to the floor and pile more blocks on top of each other without leaving an open square.

Welliris is similar, except the blocks descend check your score. down four walls to a base below, and you do choose which side to let each block slide down. That is what makes it easier. And instead of piling blocks on top of others, you try to get them slide down into the bottom of the well without to slip together at the bottom without leaving an open square as you look down at them.

A "block" may be two attached squares in a line, or three or four with an angle, like an L or a plus sign with one of the arms cut off. So far it is like Tetris, but then the four sides and the well bottom come in.

If an L-shaped block begins to descend, you position at which you let go of a piece to d can kit the K key to turn it into the best position, into place. The manual states that the piece and then use the direction cursors to move it into the best position, and then use the direction cursors to move it around usable walls. This means that you can drop down an adjacent wall and have more opportunities to place it in a better position to attach it to previous blocks without leaving an open square.

Unfortunately, often one to three walls become unusable, at least for a turn or two, when-

ever a square of a block is stuck on the wall, If you have pieces stacked up on all fours walls, they all become unusable and the game is over, then you

After two or three games, you should be able to avoid an embarrassing score.

The goal is to have as many blocks as possible any squares stacked on the sides. When a solid line is full at the bottom, that line disappears beneath the visible bottom of the well, opening space for more squares. The more lines of the squares you can "sink," the higher score. The score also increases with the levels of difficulty selected, the speeds chosen and the higher the talking about.)

come even more complex at higher levels o ficulty, but I am waiting for that till I get the Jevel working well!

Welltris was designed by Alexey Pajitno programmed by A. Snegov, Russians delight in their new fame in the West. American version comes from Spectrum 1 Byte of Alameda, California, and carr trademark owned by the company with

quaint name of Bi Proof Software, Paj also designed the sir Tetris video game.

Glastnost comes in accompan the graphics of scenes of sia, and the codes to I a game are based or

capitals and square miles of various S republics. The scenes are excellent,

The version I played was made for an IB1 or Tandy computer with at least 256K RAA a monitor of 16 colors. It comes in both 5 1/ 3 1/2 inch diskettes.

Try it. You'll love it. It can become addi-Just do not let it interfere much with your str (Next week we return computer games t regular reviewers, who know better what th

Do you really want to improve your Grammatik?

by Roland Houle Data Technology Editor

With the introduction of word processors years ago the letter writing capabilities of the average person has vasily improved. Word processors allow users great power to correct their mistakes, including spolling errors and formatting. However, the largest area open for mistakes in word processors lies with grammar, Reference Software, however, has a grammar checking program called Grammatik IV which will help close this

Grammatik IV can be used with most word processors and in two separate ways. One, it can be loaded in from the DOS prompt and then files can be brought into it.

The second way, which is much more convenient, allows you to run Grammutik IV while in your word processor. Instead of running the word processor in the usual manner, you run a program the word processor.

This basically creates a shell that your word processor can run in. It does not interfere with the running of the program

Keeping the game

from being impossible

are three factors. First,

the two falling pieces

may be exchanged

before they hit another

piece by pressing a but-

When you are done composing your masterpiece, you can hit a series of key strokes, and Grammatik IV starts cheeking your work.

There are several items Grammatik IV is capable of checking. It can examine the structure of sentences, whether the verb tenses are the same and if words are repeated, capitalized wrong or spelled incorrectly.

Grammatik IV will also prompt you when paragraphs are too short or too

After its check, the program will give you the length of the file and more importantly, what the reading level of the file is. This can range from elementary to higher education.

The program can even be customized to your needs. For example, you can add words you would use often, such as your name or Embry-Riddle. Also, it can be customized to a set reading level.

If your grammar problems are turning from Grammatik IV, which in turn, runs your \$1500 computer and \$400 word processor into a waste, you have a choice. You can take an advanced humanities course or spend about \$40 and buy Grammatik IV by Reference



Fractured faces...

Holobyte's Faces becomes the third Tetris installment.

Soviets challenge Tetris players to round three

by Joe Cambron

Managing Editor

Spectrum Holy Byte, the maker of Falcon AT and Teiris, recently released the third installment in its IBM computer/compatible TRIS series.

Faces in an educational game that is both challenging and different from the earlier Tetris incarnations. The player's purpose is now to construct the faces' of famous people throughout history. This is accomplished by placing a chin as a base, followed by tips,

The goal is to have as many

blocks as possible slide down

into the bottom of the well

without any squares stacked

on the sides.

the top of the screen and must be placed horizontally before they reach the pieces below, but they are Mona Lisa, the nose of Gorbachey, and the hair of now essentially uniform in shape. The chaffenge is

Not only must faces be constructed in a specific order, but two pieces fall simultaneously. For instance, Margaret Thatcher's mouth may fall beside Mao Tse Tsung's note. Both pieces move together remaining piece is freed. Similarly, if a tower of for at least a while

screen, so the two pieces (with a space between them) may only move one space to the left. Like all the TRIS series, when a stack of pieces reaches the top of the screen, the game ends

The game is difficult and different enough to keep the Tetris Junkles stymled for a while.

Saturday

9am-12pm

different faces may be nose, eyes and hair. Like Tetris the pieces fall from used together to complete a whole face. Therefore, a completed face may comprise the mouth of the Einstein. Your contorted concoctions appear at the left of the screen after they have been assembled. There is not time to admire your handiwork, how-

Finally, if one piece impacts with another, the

as they fall. Four pieces make up the width of the pieces separates your two pieces, one piece will be able to move independently

Once a screen is completed, this is tied to the number of completed faces. Different levels bring modern world figures, faces from art, scientists, musicians, historical Americans, literary figures, monsters, American holidays, and historical figures. If the 60 included faces are not enough of a challenge, and they will be, additional faces may be entered in Deluxe Paint format.

Other features encourage competitions through tournament options, and play over a modem is also ton, Second, pieces from supported.

The game's copy protection scheme is somewhat cumbersome, requiring a correctly answered question from the manual with each session,

Sequels are not necessarily old hat and this is no exception. The game not only provides a decent variance of the old building block concept, but enhances it with 256 color VGA graphics and Adlib synthesizer music. The game is difficult and different enough to keep the Tetris jankies stymied

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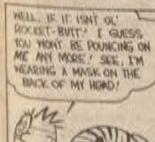
In The Howard Johnsons Hotel 600 N. Atlantic Ave 255-4471

Calvin and Hobbes

by Bill Waterson

Far Side

by Gary Larson



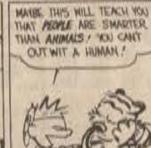
In THE MIDDLE OFFIS,

Lords and vassals

TIVES IN STRUTTLE system.



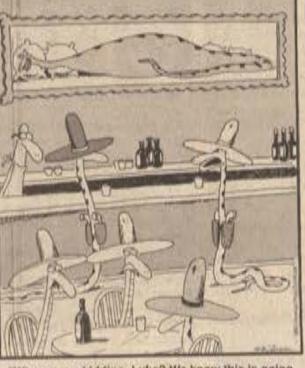












Who are we kidding, Luke? We know this is going to be just another standoff."



"My God! It is Professor Dickle! .. Weinberg, see if you can make out what the devil he was working on, and the rest of you get back to your stations.

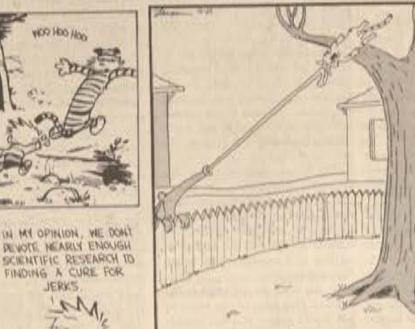




Smart move,







Young ants entertaining themselves with a grape



OPEN WIDE - OPEN WIDE.



NOW THIS MIGHT CAUSE

_HOLD REAL STILL ...

SOME SLIGHT DISCOMFORT.











Aardogs

'Joe! You went and ate the pig I was going to serve this evening to the MacIntyres? . . . Well, you just disgorge if - it should still be OK.

"Barbara, you just have to come over and see all my eggs. The address is: Doris Griswold, 5 feet 4 inches, 160 pounds, brown eyes - I'm in her hair."

A DOG WRAPPED IN TOILET PAPER.







BY GOLLY, IF THIS ISN'T



Mister Boffo

by Joe Martin Mother Goose and Grimm

WHO-WHEE WHAT DO WE HAVE HERE

TRICK OR

by Mike Peters

















SEE? I JUST WRAPPED MUSELF UP IN TOILET PAPER. NOW, WHAT DO I LOOK LIKE ?...



A MUMMY!

LOOK LIKE A MUMMY





Notices

Graduating seniors need exit interviews

If you were a graduating senior who was awarded a student loan as parts of your financial aid package while attending Embry-Riddle, Federal Regulations require you to complete an Exit Interview prior to leaving the University. If you received money from the Stafford/GSL programs ONLY, require a separate Exit Interview session to be scheduled through the Financial Aid Office. Further information will be provided at a later date. If you received a Perkins/NDSL or REAL loan alone or in conjunction with a STAFFORD/GSL loan you are required to complete a EXIT INTERVIEW through the University Collections Office.

These EXIT INTERVIEWS provide important information concerning the repayment of these loans. It is important that you complete these EXIT INTERVIEWS if you are a borrower of multiple loans were the terms of each loan differ. It will be necessary for you to know in advance how entering into "multiple loan repayment" will effect you.

Please contact the University Collections Office at 239-6040 to schedule

your appointment for an EXIT INTERVIEW.

The schedule for the current semester meetings will be as follows: Monday, November 5 at 3:30 p.m.; Tuesday, November 6 at 10:00 a.m.; Wednesday, November 7 at 3:30 p.m.; Thursday, November 8 at 10:00 a.m.; Friday, November 9 at 10:00 a.m.

These sessions will be held in the John Paul Riddle Student Center (located at the main entrance of the University Center.) If you have not yet scheduled an appointment please do so immediately. Be advised that a hold will be placed on your cap and grown for graduation until you have fulfilled your exit interview requirements.

Space Courses will be offered

The Department of Aeronautical Science is introducing a series of space courses this spring with Planetary and Space Exploration, SP 200. The second and third courses will be offered in the summer and fall terms of 1991. These are three credit courses and satisfy AS electives for the Aeronautical Science major and numerous other majors. This course will be limited to hindsight all the time would one section and will be available to any student interested who satisfies the become very boring and not very prerequisites.

SP 200 Planetary and Space Exploration will meet Mondays, Wednesdays, and Fridays from 12:30 to 1:20 p.m. The prerequisites will be PS 103 whose hindsight far exceeds the or PS 102. The instructor will be Erickson. The course description states: average student, This is a survey course of U.S. and foreign space and planetary exploration programs and the scientific benefits of the past and future exploration pro-editorials is that they are mostly

grams. The level is introductory physics.

The two Space Studies courses that are scheduled for the summer and fall 1991 term are respectively, SP 210, Space Transportation System and SP 215, Space Station Systems and Operations. These are also three credit understandable why the quality of courses and limited to one section each. A total of eight courses are proposed for a Space Studies program with the first three approved for intro- National Enquirer. duction in 1991. The five other courses are in the approval stage, The two courses being offered in the summer and fall terms include SP 210 Space. October 24th issue of the Avion by Transportation System, given in Summer term of 1991. The course is three Mr. David Fekke, you will quickly credits with prerequisites being PS 103 or PS 201. The course description notice that the words above are in states: This course will introduce the Space Shuttle operations, missions, fact Mr. Fekke's, with the word systems, training operations and commercial applications.

The other course wi SP 215, Space Station Systems and Operations and Department. In both cases, Mr. will be offered in the Pall 1991. The course credit is worth three credits. Fekke's words are fiction. He The description reads: Space Station Freedom planning and operations will obviously has very little knowledge be surveyed in this course. The general space station concepts will also be

introduced for past and future systems,

Several of the future Space Studies courses, if app, ved, will have a the homework required to write an mathematics prerequisite, Space Math, MA 111 if you may want to sign up editorial on this subject. for this mathematics course, offered in the spring terms (including this spring 1991 (cim). For more information on these courses conner Dr. Er. figures of 1500 flight students and ickson at ext. 6474 or the Department of Aeronautical Science.

Pilot exams to be given

Embry-Riddle Aeronautical University will administer the FAA Pilot and/or instructor written examinations for the following dates: November 9, 10, 13, 14, 27, 28. The times will be 9 a.m. and 1:30 p.m. in G-105, GRW Complex for the above dates.

Students intending to take un FAA Pilot Written Examination are required to sign up in office H-119 or call extension 6830 prior to examina-

At the time of the examination, each student must present a receipt for

Deadline nears for Leadership seminar

The Student Activities Office is still accepting applications for the Stu-

Worthy editorials

To the Editor.

I feel sorry for all students who have to read the Avion at Embry-Riddle each week. The paper in general is an asset to the University, but the editorials make it almost not worth reading.

Our universityhas lost many students due to the poor attitude portrayed of the university by the editors of the paper. So many students start out with enthusiasm and then leave the university or join the local "DO IT THIS WAY TO BENEFIT ME" group. Think about it. How many people do you know who sit around complaining about the system, but never get involved and help fix it.

Joining this group would not be so bad, but sitting around just using There are some productive. excellent visionaries at the Avion

The main problem with the one sided and lacking any fact; However, considering the caliber of writers on their staff it is writing is somewhat equal to the

If you read the editorial in the Avien replacing the words Flight about the actual workings of the Flight Department, nor did he do

Mr. Fekke is quick to throw

only 300 can be accomodated. Now, as Paul Harvey would say," The rest of the story."

A tremendous amount of information and experience goes into the number of flight students the department can handle each term. These factors include the number of aircraft available, the number of instructors available, the average length of each course, and of course, the most predictable factor of all, weather. Historical reports are kept from previous terms regarding other factors such as average aircraft maintenance time, average days of sickness by both students and instructors, average number of no-showed activities, and the average number of weathered flights. All of these factors are considered by the administrative staff of the department and a crucial decision is made on the number of flight students in each course. This determines decision economically the department can operate and keep the cost of flight

to a minimum. I wonder if Mr. Fekke reulizes that if he were running the department and could only accomodate 300 students per term, as his story implies, the cost of a flight course would be four or five times greater than the current rate. Think about that for a moment. In order to provide his "Benefit Everyone Perfectly World," all of the current staff and equipment would be needed along with the normal support provided by the university in general, Now, divide all of the costs by 300 students instead of the 1500 students and you can easily see how it would cost so much, Fortunately, Mr. Fekke does not run our flight department and Embry-Riddle is inble to provide 1500 students a

pilot exam fee, validated by the Cashier's Office; a written authorization form signed by an appropriate Aeronautical Science Department Ground Instructor, or the failed results of a previous FAA Written Examination, and present as personal identification and Airman Certificate, driver's license, or other official document.

Explanation of appropriate forms and procedures will be given. Immediately thereafter, testing will commence and unless prior arrangements have been made, late examinees will not be permitted to enter the examining area while testing is in progress.

dent Leadership seminar held each semster. If you are interested in learning leadership skills that can help you in the future, please stop by the office in the front of the Student Center for more information and an application,

quality academic education for a reasonable cost, Of course, Mr. Fekke will learn about fixed and variable cost before graduating when he attends his required business management course.

Apparently Mr. Fekke does not understand why he is attending college. He is here to learn how a professional person handles situations in their chosen career. Let's take a look at the ideas he presented in his editorial.

One, he thinks everyone should be able to start a flight course when they want to. Two, he does not like to conform to a dress code. Three, he feels that information designed to help him become more knowledgable in his chosen career is not necessary even if presented in a different format.

Now let's put him in his chosen profession and see how well he does. One, what will he do if he is number 45 for takeoff in New York with a one hour taxt to the active? Will be demand that everyone stopflying so that he can take-off? Two, I'm sure that his airline employer will not mind if he wants to wear Bermuda shorts and a flowered shirt on his trip to San Juan so he will be in style when he arrives. Yet regardless of what ho is wearing, he will still need oxygen to take care of his hypoxia problem. Three, this same airline employer will certainly excuse him from all re-current training when he explains that he has already been trained and can remember enough to fly company aircraft.

What can we all learn from all this? Certainly there are some positive issues which can be reflected here:

1. There always has been, and always will be a delay to get a quality flight education at a reasonable price. Live with it or

settle for lower quality. No one has ever been forced to change degree programs.

2. There is no perfect system anywhere! Every step in life always has been and always will be a give and take situation. A person's maturity level is measurby how well he or she learn give and take in a professional manner.

3. When someone creates a situation which you perceive to be incorrect and possibly rude, stop and take a look at the whole picture. If you want the system to change just to benefit you at that time, then you are the inconsiderate to the majority (or rude as Mr. Fekke would say). It would be wise to consult the following people to assist you in understanding the whole picture.

a) Rude Instructor...consult the Training Manager

b) Rude Training Manager... consult the Dept, Chairman

c) Rude Staff... consult the Immediate Supervisor

Hint: When consulting, just state facts and do not accuse anyone with wild, exotic expletives. Remember, until you are familiar with the whole picture, you may be incorrect due to circumstances of which you are unaware (and considered rude by Mr. Fekke's definition).

4. Get the facts from reliable sources (see who to consult above) and listen carefully. You may learn something. Make your own decisions based on factual information and use a professional attitude when discussing your opinion.

Respectfully, Chip Hough Flight Supervisor



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CUSTOM RACKET STRINGING. Don't pay \$18 at champs! Juna \$10 gets you and satisfaction guaranteed strung job. Next day service usually available. Down 2 Rm 202 238-4074. Ask for Sonny.

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I NIED A GIG-IF you are looking for a guitarist, call me. Jasz, Rock, Country, Bluegranz, R&B, 50's, 60's, 70's, 80's, top-40, doesn't matter, 274-3309, ask Kevin.

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TENNIS LESSONS given by European circuit player, Reasonable rates. Call Tom at 673-1473...NOW.

WANTED: VW Bog Radiator Cap, metric createst wrench, lawn friaber, lefty hammer, bacon structur, gallon of proposal (unopened) if snyone possesses any of these tiens, please contact me. I will pay top dollar, Stave B. Box #8144.

OFFICE DESK FOR SALE 3ft.x5ft. top with 4 drawers. Good Condition \$35.00 Call John at 673-8107 after 4 pm.

+ Roommates

Roommate Wanted: Non-smoker, wood forest Apts. (behind Volusia Mall). Master bedroom, own bath, recquestrall, 2 pools and Januzzi's, cable, microwave, etc. 5235/month plus 1/3 electric, call Jim or Andy at 257-1398.

UNPURNISHED APARTMENT FOR RENT 2 bedroom, 1 bath, stove, infriguesior, dishwasher, 310 Woodlawn South Daytona \$410.00 month rent and \$300.00 security deposit call 788-6040.

ROOM FOR RENT 185 month includes utilities, full bouse priv, sham bathroom, mar ocean.

TWO BIIDITOOMS IN HOUSII FOR RINT nice place. Washer/Dryer/TV/VCR/Cable/III./Ph/includ ed for only \$250 month. Nice Price. Doc't wait, vall Tom at 673-1473 saytime.

ROOMMATE WANTED: Dond Townhouse for rent. Pestures 3 large bedrooms, 2 full baths, new appliances, and only 3 miles from school. \$200 and 1/3 util. Call 788-2369, sel for Dave. Thanks.

WOOD FOREST COMPLEX mester bedroom in a three bedroom spanment. Need to find roommats as soon as possible! \$230.00/month Ph.#257-1398.

ROOMMATE NEEDED 3 bedroom loose. Pool, washer, dryer. Alarm system and other milities. 1.5 mile from Riddle. Please Call 760-1754.

ROOMMATE NEEDED! Share large one bedroom an at Breakers Apra. \$220.00 per/month and 1/2 utilities. Call Joe 238-7791.

+ Personals

TO AL AT FLIGHT DESK.
It's too had you're leaving, I would have leved to have been your personal narse so I could heat your nose with a Kiss. See you in my dramat.
Blond Bunny.

Sweety and Honey, What is it to you? Are you Jealous? Neighbor.

SWEETY AND HONEY
Stop harmsing your neighbor. When you do
decide to exchange salive with anyone, try a
Poertonican. You will enjoy it.
Piertorriese.

FOX Whatever happened to good old-fashioned, unadidierated romance?

SNUG BUNNY AND SLIEPY

Listen here B..., you'll never see swatcheniser again! We have wee willy in full effect protecting kim. We are seriously considering hanging him by your weight belt but we can talk prices. Wally and Ho.

WDAM,
Show me how you do that trick. The one that
makes me scream. And I promise you, I
promise you, I promise you fill give you a
treat sweeter than pumpkin pie. Happy
Halloween!
Love MC.

LEADER OF THE PACK,
Student who taped this rong with a
Morrison's worker on Music Video Day,
Please contact Denise the busperson, so she
can get a copy of the tape.
A FRIEND.

FOX, Let's start fooling around. ACE.

PHOTO GOON Here's your #@*11 cameral! FOX

ACET 90-91. Congratulations to Jesont on Test II.

ACET 90-91 Lock not lot the Mid sometter Illaha get us down! We must go on!

TO All Males
I would really love to know the
purpose of asking or girls for
our phone numbers and then not
following through by calling. Is
there some guy type masoning
behind this type that we don't
know about?
A curious female.

TO A CURIOUS FEMALE After we sober up we only call if its worth the affort! A male.

GOOD LUCK on your ran Uilen! LD

HEY MISS MILITARY

80%77 That's a bit high. Don't you think. I wish we had more time when it was 5%. I think it's because we live in different worlds, and that's a problem.

The one who asks, but never tells.

100 000 000 0000, 000 0000 0000

TO TOM MCCIES,
What happened to my lost long neighbor?
L-

TO MY BALDING ROOMMATE stop trying to steal him away and find your own date! SCOOPS

MARK I will study! I will what? I will not do what? YOUR CONSCIENCE

OREG Get a date will you! SB AND SP.

TO CONCERNED ENGINEER.
When you stop cloud dostging
in that chicken hawk you fly,
you let me know!
From aspiring Naval Aviator.

HAPPY BIRTHDAY!! I'm no Jonger in serious like. NOW WHAT?

CHRISTOS, "Know what I'm saying?"

ANORI.
You are unly as beautiful as an angel.
I just wish I knew you better.
You never know how great of a friend
you might find, unless you
check everywhere.

TO RON,
You are going down, it will be done.
This, your last semester, ends your
reign. Just bewarn for a rix-pack in
the vicinity,
From MU.

RUDDING fINGINEERS,
You might laugh now, but when we
get into the real world, I will laugh
all the way to the bank.
Pro Pilot.

ACUT 90-91 Lat's do it!

JASON Quit your job! They don't pay you! D.V.

JASON
Job with no money is no job-quit
your job,
D.V.

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