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McDonnell Douglas and U.S. Army's teamwork enhances AH-64

McDonnell Douglas Press Release

The combat-proven AH-64A Apache is a better helicopter today than it was 10 years ago, thanks to unprecedented teamwork between the U.S. Army and the talented industry team that builds it.

Criticism seems to follow the Apache wherever it goes, but one undisputed fact remains: When the Apache was called to duty for Operation Desert Storm, it was ready and performed as promised.

Readiness rates for the Apache continue to meet Army requirements two years after Desert Storm, countering claims over the years that the Army cannot maintain required Apache performance levels for extended periods. Shortfalls this year in Army funding and unit maintenance personnel to support the Apache and other Army aircraft may impact readiness rates but are not attributable to aircraft performance and reliability.

"When critics cite 'problems' with the helicopter's main rotor blades, its 30mm area weapon system or subcontractor management, they're generally rehashing news that's outdated by two to five years," said Al Winn, vice president of engineering at McDonnell Douglas Helicopter Co. "We've heard it all before."

In fact, Winn says, the Apache has become a very reliable helicopter, one that can be maintained effectively by its ground crews.

"We've spent the better part of three years working hand-in-hand with the Army and our teammates to eliminate the Army's concerns," he said. "The Apache isn't perfect, no advanced aircraft is. But it's the best helicopter weapon system ever built, it has proper Army and industry management and it's getting better all the time."

He added that the company has implemented a quality improvement program in the past few years and actually was in the

process of resolving many quality and systemic concerns prior to being placed on a contractor improvement program by the government in 1991. The company was removed from the program last year with government acknowledgment of significant progress having been made.

"We made additional system and organizational improvements that met with the Army's approval," Winn said. "And were continuing to strive for higher quality and better performance in everything we do."

Nonetheless, negative reports about the Apache persist. For example, problems with main rotor blades were identified in the mid-1980s and immediate corrective action was initiated and placed on fielded fleet aircraft.

"We've read many times about Apache blade failures and of problems with the blades that reduced service life to just a few hours," Winn said. "In almost all cases, the data was either a distortion of the facts or just plain wrong."

In fact, since fielding the Apache in 1986 and with more than 500,000 hours of flight time on the fleet, the Army has reported only one instance of a trailing edge repair failing. This incident caused an out-of-balance situation that required the aircraft to land.

"We were dealing with a young fleet and needed to understand the nature of the problem," Winn said. "We identified blade problems, made corrections at no cost to the government and have completed all the field modifications."

Mean time between removal has steadily risen, and contrary to reports that blades have short service lives, Apache main rotor blades exceed the system specification 1,500 hours of service between removal by several times.

Another area of concern, Winn said, has been the Apache's area weapon system accuracy.

"The original first article tests of the area weapon system in 1985 were started but

never completed for several reasons," Winn said. These initial tests had indicated the need for improved performance in several areas.

"After continuing discussions and negotiations with the Army and after development of improvements in the gun system by McDonnell Douglas, we agreed to retest the system last year."

The gun was tested for both reliability and accuracy during two separate test programs.

During the year-long reliability tests, the Apache area weapon system recorded an Army-scored reliability more than double the Army specification. In 1991, the Army and McDonnell Douglas created the Area Weapon System Accuracy Improvement program to satisfy Army requirements.

"Because original accuracy requirements were very demanding, requiring performance outside the Apache's current mission requirements, the Army redefined the importance of each test point," Winn said.

During the accuracy evaluation, the weapon system passed 16 of 19 test points. The remaining points do not impact the operational capability of the Apache.

"Based on these results and guidance from the Army, we've developed two engineering change proposals for system accuracy that have been submitted to the Army for approval."

Regarding subcontractor management, Winn said McDonnell Douglas has consistently worked to improve the performance of its Apache subcontractors.

For example, when McDonnell Douglas was made aware that a supplier had not complied with heat treat requirements for strap pack assembly nuts, an investigation was conducted.

McDonnell Douglas identified the discrepant hardware and removed it from service at no charge to the Army.

"Because McDonnell Douglas will only award work and requalify the highest quality



The AH-64 Apache helicopter has been a very valuable asset to the military.

performers," Winn said, "this supplier was dropped from the company's approved supplier list." Winn said difficulties with subcontractors are normal on programs as large as the Apache.

"We've had our share of supplier quality disagreements," he said, "but overall, the Apache team has produced quality components and subsystems that together represent the best combat helicopter in the world."

Winn described aerospace programs like the Apache as "extremely complicated." "Thousands of individual parts are manu-

factured to exacting tolerances by hundreds of subcontractors and brought together at the same time and place and assembled into a sophisticated fighting machine. It's an amazing process to observe," he added.

"If the Apache team played baseball instead of building helicopters, we'd be batting over .900 and, considering the opportunities for mistakes, our errors handling the ball would be almost nil," Winn said.

"With that kind of team, we'd win the World Series every year."

First Learjet 60 enters service in Wichita

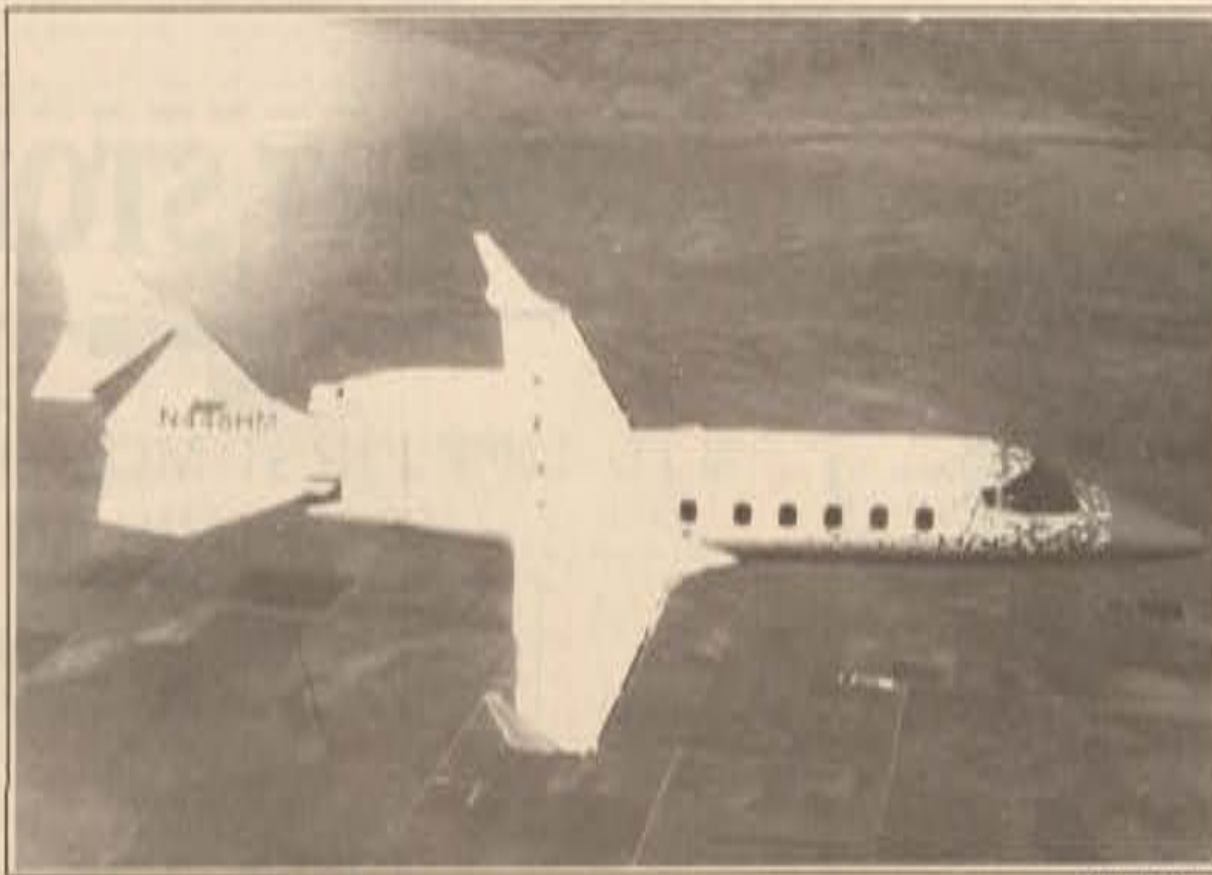
Learjet Press Release

Herman Miller, Inc., a longtime Learjet user, today inaugurated service with its new Learjet 60, the first to have been delivered and enter service with a customer. In marking the occasion, Learjet President and Chief Executive Officer Brian E. Barents commented that, "this event represents a major step in our efforts to re-establish Learjet as the number one producer of light to medium jets."

Learjet delivered the airplane to Herman Miller in January 1993. The aircraft later returned to Learjet for customization, including a distinctive paint scheme designed by Herman Miller's graphic arts department. The company logo used extensively on an overall white background makes the aircraft easily recognizable wherever it operates. Barents hailed Herman Miller as a "roving ambassador for the concept of the business jet and what it can do for a company."

Herman Miller, a manufacturer of furniture for the office, healthcare and home environments, will use the aircraft almost exclusively to transport customers to its Sales Pavilion and other facilities in West Michigan. In accepting a special key to the aircraft, J. Kermit Campbell, the company's president and chief executive officer, commented that "We feel that bringing customers into our facilities gives us a better opportunity to build partnerships with them and to share our products as well as our philosophies and style of management."

The company previously operated a Learjet 55, flying it approximately 1,200 hours a year. "Our Learjet provides an ease and flexibility in bringing a client's team together to discuss their needs," said Dawn



Herman Miller's Learjet 60 is the first to enter service and has an interesting red on white paint scheme.

Johnson, vice president for North American sales at Herman Miller. "Last year we had a client visit nearly every working day and some days the jet would bring in two different client groups. Being located in West Michigan, our Learjet simplifies the complexity of our client's travel and increases the time they can spend at our facilities. We see this as a critical element in the selling process."

remarking on the high utilization of Herman Miller's aircraft, Barents commented, "this says a lot for the dispatch reliability of a Learjet. I think it is fair to say this is one reason Herman Miller stays with Learjet. They will be able to fly their customers in greater comfort and

reach our further because of the aircraft's maximum range of 2,740 nautical miles."

"We have invested heavily, and plan to continue the development of new aircraft, in order to provide the market with the most efficient, most capable, and most modern aircraft available," said Barents. "As a result the future is very bright for Learjet, in no small part because of loyal customers such as Herman Miller who recognize the value of our aircraft."

Herman Miller is a leading multinational manufacturer of furniture and furniture systems. The Fortune 500 company has its headquarters in Zeeland, Michigan. It also has plants

in Texas, North Carolina, New Jersey, Michigan, California and Georgia, as well as foreign production sites in England and France. Sales offices are found in three dozen countries around the world, with products installed in more than 60 countries.

Learjet Inc. is a subsidiary of Bombardier Inc., a Canadian corporation with 32,000 employees worldwide and annual sales in excess of \$3 billion (Can.). Bombardier is engaged in design, development, manufacturing and marketing activities in the fields of aerospace, transportation equipment and motorized consumer products.

EAA releases new aviation photography video

EAA Aviation Foundation Press Release

If you've ever wanted to take better photographs of airplanes, the EAA Aviation Foundation has produced a video that can help. Titled "Aviation Photography Made Easy," this unique 45-minute program outlines many basic photography techniques for improving aviation-related photos.

"These days, nearly everyone owns a camera," said Dick Mati, EAA Vice President of Marketing and Communications and professional photographer. "Yet taking good pictures of airplanes is often difficult, unless you know the proper techniques. Through this video, we hope to pass along some simple suggestions for improving a photographer's airplane photos, either on the ground or in the air."

"Aviation Photography Made Easy" covers topics that include how to select the right camera, lens and film; fundamentals of composition; how to photograph static aircraft; shooting air-to-air, ground-to-air and air-to-ground photos; plus other methods to improve aviation photography techniques.

The video contains interviews with members of EAA's award-winning photo department including Chief Photographer Jim Koepnick and Staff Photographer Carl Schuppel, Mike Steineke and Donna Bushman. Each photographer discusses their area of expertise in photographing airplanes. Additional interviews are featured with Peter Tvarukunas of Canon Cameras, Steve McCullough from Eastman Kodak and Air-to-Air Photo Pilot Buck Hilbert.

Japan considering penalizing Northwest Airlines

Associated Press

TOKYO — Japan may penalize Northwest Airlines for allegedly picking up too many passengers on its New York-Osaka-Sydney route, the Transport Minister said Tuesday.

Ihei Ochi told a news conference that an agreement between the United States and Japan provides that no more than 50 percent of the passengers on the flight to Sydney come from Osaka. He said the ministry is considering banning Eagan, Minn.-based Northwest from picking up any passengers in Osaka on one of its three weekly flights to the Australian city.

In some months, more than 70 percent of the passengers have come from Osaka, said a ministry official, speaking on condition of anonymity.

The New York-Osaka-Sydney flights began in October 1991.

Takashi Matsumura, spokesman of Northwest Airlines' Tokyo office, said he believed the U.S. government would respond if the Japanese government moved to penalize Northwest over the issue.

On March 10, the Transport Ministry granted Northwest a one-month extension of the route, after a three-month extension, but asked the U.S. Transportation Department to ensure that Northwest abided by the limits.

Clinton signs bill creating commission on U.S. Airline industry

Associated Press

WASHINGTON — President Clinton signed into law a bill Wednesday designed to begin the process of shoring up the nation's limping airline industry.

The legislation creates a commission charged with developing a plan strategy to reverse the nosedive in an industry that Clinton said has been "spiraling downward for some time."

Clinton said the commission would look for ways "to ensure a strong, competitive airline industry" and to work "on behalf of

the industry and the workers whose livelihoods depend on its health to search for real answers."

Connecticut lawmakers, among others, have pushed for creation of the commission because of the economic problems facing jet-engine builder Pratt & Whitney of East Hartford, Conn. Simultaneous cuts in defense spending and plummeting commercial sales have forced Pratt to accelerate the pace of layoffs.

The National Commission to Ensure a Competitive Airline Industry is to consist of 15 voting members, five named by House leaders, five by Senate leaders and five by

the president. It also will have 11 non-voting members.

"Our national government has failed to create the economic climate necessary for this leading-edge industry to thrive at home and in an increasingly competitive global economy," Clinton said. "The condition of the domestic aviation industry has been spiraling downward for some time."

The industry suffered \$10 billion in losses over the last three years, White House officials said.

Clinton said the commission may find that the answers "lie in a more aggressive trade policy, others may come from keeping the global marketplace freer from unfair

competition, more may stem from the supporting role of aviation in preserving our national security," he said.

He added that no industry "flourishes in isolation" and that a strong overall economy is needed to help business thrive.

"The health of each sector depends at least in some measure on the overall health of the American economy and no one can look at this economy and say that we are satisfied with things just the way they are," he said.

The president pushed his economic package as a program to improve the country's economic prospects overall.

Sens. Christopher Dodd and Joseph

Lieberman, both D-Conn., said in a joint statement that government action to stabilize the airline industry "is urgently needed."

"We hope this commission can help us improve America's position in global aerospace competition by focusing on more aggressive trading policies and identifying ways to preserve the aerospace industrial base," Dodd and Lieberman said.

The issue is complicated for Pratt, however, because in addition to selling to U.S. airplane makers, the company also trades with Airbus, the western European conglomerate that is cutting into American airframe sales.

Orbiter Update

Columbia - Columbia is at Launch Pad 39A where main engine leak checks have been completed. Launch of STS-55 is scheduled for 10:52 a.m. Saturday April 24.

Discovery - Discovery is currently in orbit where its five-member crew is completing various science experiments. Discovery is scheduled to land at KSC at 7:33 a.m. on Friday.

Endeavour - Endeavour is in the VAB waiting for main engine installation for its scheduled May 18 launch.

Atlantis - The orbiter Atlantis is in Palmdale, California for modifications at the Rockwell International plant. Atlantis will be upgraded for its next launch in April, 1994.

Discovery lights up early morning sky

After delay, STS-56 starts without a hitch

By Brian Gamage
Space Technology Editor

After problems with a propulsion valve scrubbed the launch of STS-56 two days before, Discovery roared off the launch pad Thursday at 1:29 a.m. without a problem.

Last week's scrub occurred at T-minus 11 seconds, eight seconds earlier than Columbia's previous T-minus three second abort a month ago.

"The countdown was pretty quiet tonight and the shuttle went up on time. Oh, excuse me, 43 milliseconds late," said Brewster Shaw, Deputy Director of Shuttle Operations.

Once in orbit, Discovery's five member crew ran into a problem with the data relay capabilities of the ATLAS-2 atmospheric satellite. Backup onboard tape recorders had to be used to store the data.

In command of STS-56 is Kenneth Cameron, who is making his second shuttle flight, with Pilot Stephen Oswald in charge of maneuvering the craft for ATLAS

measurements. Payload Commander Michael Foale, making his second flight, Mission Specialist Kenneth Cockrell and Mission Specialist Ellen Ochoa, both on their first flight, round out Discovery's crew.

Flying as primary payload for STS-56 is the ATLAS-2 Spacelab, which will conduct remote sensing experiments for eight days while in low-Earth orbit.

The source of solar wind, research in drug development and the growing of mushrooms for a high school in Pennsylvania are some of the other areas to be investigated during the mission.

Yesterday, the Spartan-201 free-flying payload was captured by the remote manipulator arm and placed back in the shuttle's cargo bay. Spartan was released from the shuttle to allow it to point itself at the sun while leaving the orbiter free for other activities.

Results from the Spartan experiments should help scientists understand the physics of the sun's corona and the solar wind.

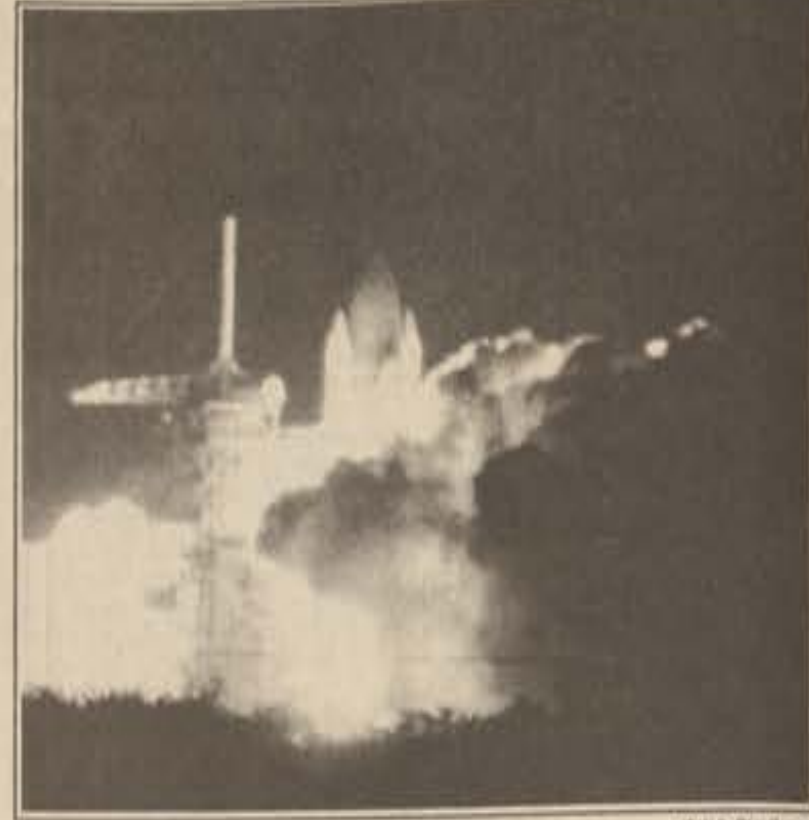
While in orbit, Discovery's crew

talked with various high schools around the country using the "ham" radio experiments. These school contacts generate interest in science as students talk directly with the astronauts.

The crew was broken into two teams so that experiments could be conducted around the clock. Cameron, Oswald and Ochoa comprised the Blue Team, which had first call, and Cockrell and Foale made up the Red Team.

Launching so early in the morning was needed in order for the orbiter to be in the correct alignment with the sun and Northern Hemisphere. The experiments will study the sun's rays as they pass through the atmosphere over the United States to determine the rate of ozone depletion and its cause.

Discovery is scheduled to land at the Kennedy Space Center's Shuttle Landing Facility on Friday at 7:33 a.m., but weather forecasts call for marginal conditions. A storm front is expected to pass through Central Florida Friday morning, which might force the shuttle to land at Edward's Air Force Base.



After flight computers scrubbed the first launch attempt at T-minus 11 seconds, Discovery lifts off launch Pad 39B. Her five-member crew will spend eight-days studying the Earth's atmosphere and ozone layer.

Venus' atmosphere to slow Magellan



Magellan will begin high resolution mapping of the surface of Venus next month.

By Mike Dienhart
Staff Reporter

NASA will use a radical method called aerobraking to slow the Magellan spacecraft and bring its orbit closer to the surface of Venus.

Aerobraking involves allowing the spacecraft to fly through the atmosphere at its periapsis, or closest point of approach. The aerodynamic drag induced on the craft in its flight through the atmosphere reduces its velocity and will help to circularize its orbit.

This will be the first time NASA has attempted an aerobraking maneuver at a distant planet and the experiment is expected to provide valuable information for future missions.

The aerobraking will begin on May 25 when spacecraft controllers will perform an orbit trim maneuver to lower Magellan's periapsis altitude. The aerobraking process is expected to take 70 days.

Magellan has spent the last three years mapping the surface of Venus using imaging radar. After its orbit has been circularized it will begin performing high-resolution gravity studies.

The edges of science...

A look back at a semester on 'the edge'

By Brian Gamage
Space Technology Editor

Another semester has gone down the tubes and another series of boring Space Technology stories have gone unread, except for a few grey boxed articles that appeared on this edge of the section.

The edges of science... was an attempt to communicate the many new and fascinating theories on stuff that happens in our universe. The task of translating the complicated language and equations scientists use to explain events into regular English proved difficult for myself and "Edges" contributor Arie Moller.

Mr. Moller began the column with a discussion of faster-than-light particles called tachyons, which, he found, might one day be used for extremely fast space propulsion.

Then I investigated some results of General Relativity, explaining the new theory of gravity and

introducing the bizarre notion of gravity waves as ripples in spacetime.

Mr. Moller then dove into a deep discussion of wormholes. The theoretical prediction of wormholes, it was reported, gave way to a possible shortcut for space travel. After additional investigations, Mr. Moller reported that wormholes, if they existed, could provide a means of travelling backward in time.

The next exotic science topic to be covered in this column was "dark matter," which I reported to be very dark and dense material possibly dispersed in halos around galaxies necessary for support of the Big Bang Theory and current understanding of the universe.

The dark matter thoughts led into Mr. Moller's discussion of quarks, which are new fundamental particles named after "small beers."

Sources for these "Edges" articles were found in the Jack R. Hunt Memorial Library, which contains a vast selection of science books and journals. Just look at all the stuff you can learn.

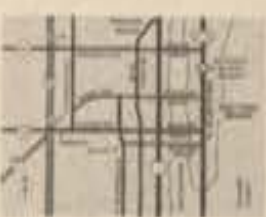


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Origin goes out of the Abyss and into the sewers

By Ronald Hess
Data Technology Editor

Here is the review of Origin's sequel to *Ultima Underworlds I: the Stygian Abyss*. *Ultima Underworld II: Labyrinth of Worlds* places you, the Avatar, back in Lord British's world of Britannia. Once again, Britannia is in dire straits and needs the Avatar's help.

In *Underworld I*, the Avatar was mistaken for someone else and thrown into a seven level abyss. Well, you obviously found the girl and proved your innocence or you would not be reading this review.

In *Underworld II*, Lord British, the Avatar and a slew of other past

Ultima characters are having a party. Meanwhile, the Guardian, an other-dimensional bad guy, has decided to take over the world of Britannia.

The Guardian places a large, Blackrock gem around the castle during the party. This conveniently traps the Avatar and everyone else inside. Apparently, the only way to escape is through the sewers below the castle, hence the "underworld" title.

You, as the Avatar, battle your way around the sewers, searching for a way out. Your search brings you upon the Blackrock gem. The gem happens to be a gateway to eight different worlds, much like

some of the moonstones of Britannia.

Each world has its own look and feel, besides its own puzzles to solve. There is an ice world, a wizard's world, a floating castle, a prison, and a few alternate dimensions. The worlds have numerous puzzles, some requiring travel to several other worlds to solve. Also present in these worlds are a few weapons and supplies and of course new monsters.

Underworld II has the same perspective and similar play functions as *Underworld I*. The designers at Origin claim that the view screen has been enlarged. I did not notice too much of a difference. Magic is

still performed with rune stones, but new spells have been added.

For those who have never seen or played *Underworld I* or *Castle Wolfenstein 3-D*, these games have a first person perspective. Instead of the god or bird's eye views common to *Ultima* and other graphic RPGs, this game and its predecessor, literally place you in the main role.

You see, do and move as if you are the character. You have a 360 degree view. You can even look up and down, unlike *Castle Wolfenstein 3-D*.

Both *Underworld* games are solo, meaning there is no group of adventurers to work with. As with all *Ultima* games, character interaction

is important. The prime source of information is from speaking with characters. The amount of information obtained depends upon the disposition of the character and the tone in which you ask the questions.

Movement is performed by simply facing in the direction you wish to move, and pushing a button to go forward. In *Underworld*, the view bounces depending upon how fast you walk or run. If you take a swim, then the screen bobs to give the impression of floating. In the Ice World, there is ice. People have a tendency to slide on ice, especially when they run.

Other interesting things in this near virtual game include doing and

using things and combat. When you wish to use something, like a key, a hand extends into view, holding a key. Combat depends upon what you are fighting with. A sword, mace, or ax extends, if you have one readied in the proper hand. Yes, you may select the handiness of your character. If you do not have a weapon, then the game puts your bare knuckles out to pummel your opponent.

Playability has not changed much between games. The movement may be difficult, but it soon becomes second nature. We all had to learn to walk before we could run.

see *Ultima*, page B8

Workstation market in slump

BOSTON (AP) — In another sign of how quickly the computer industry can change, a key product segment hailed for its remarkable growth just a year ago has lately lost much of its glow.

The products are workstations, high-powered desktop computers that sold at a rapid clip during the 1980s by winning over engineers and technicians.

But this business, which seemed to defy a slump hitting other parts of the industry, has slowed considerably as it has tried to expand beyond the technical market into the office.

Analysts say several factors are at work, including the weak economy and price wars. But perhaps the biggest obstacle is the machine that has shaken up the entire industry: the personal computer.

As PCs continue to grow more powerful, analysts say they could eat away business from workstations similar to the way PCs and workstations gobbled up the market for even bigger mainframes and mid-sized minicomputers.

"The PC is a desktop computer and the workstation is a desktop computer. The technologies are converging," said Gary Eichhorn, general manager for Hewlett-Packard Co.'s workstation division in Chelmsford, north of Boston.

The prices are converging too. Some low-end workstations now sell for less than \$4,000, not much higher than expensive PCs.

Analysts say the pressure from PCs is expected to increase with the recent unveiling of Intel Corp.'s superfast Pentium computer chip, combined with Microsoft Corp.'s soon-to-be unveiled operating system, called *Windows NT*.

The operating system acts as a base layer of software for a computer, and *Windows NT* is expected to bring much more versatility to PCs.

"The heads of the major workstation suppliers are all rushing to the door of the commercial marketplace as quickly as possible, and they're being confronted by NT guarding the gate," said John Logan, an analyst with Aberdeen Group in Boston.

"The dynamism of the marketplace is creating ulcers for the computer business executive," he said.

One company, Next Computer Inc., founded by computer pioneer Steven Jobs in Redwood City, Calif., dropped out of the race this year, halting its workstation manufacturing to focus on software.

Revenues in the workstation market nearly doubled from 1988 to 1991, but then grew by less than 5

percent last year, according to estimates from Dataquest in San Jose, Calif.

The market, which totaled about \$9 billion in 1992, could climb to about \$15 billion in 1997, said George Weiss, a vice president with Gartner Group in Stamford, Conn.

"It's nominal," he said. "It's not heady growth."

Analysts note that the upper tier of the workstation market, which caters mostly to engineers and scientists, should remain well beyond the reach of PCs. One player, Silicon Graphics Inc. in Mountain View, Calif., continues to prosper by staying in that niche.

But other leading companies, Sun Microsystems Inc., Hewlett-Packard and International Business Machines Corporation, recognize the threat from below.

They demonstrated that last month when they announced they would form a united front against *Windows NT*, joining together to develop common standards for the Unix operating system that runs on workstations.

Bob Pearson, director of advanced desktop systems for Sun, also based in Mountain View, said workstation companies must point to

see *Workstation*, page B8

Control the fate of a lowly slave who aspires to be an emperor

By Ronald Hess
Data Technology Editor

History is full of people who started life at the bottom of the social totem and became leaders of their civilizations. Well it seems that the history books overlooked one person, Hector.

No, this is not the same guy who defeated Achilles in *The Iliad*. Hector was, or rather, is a slave in ancient Rome. Hector aspires to become emperor someday, but the gods are against him. He desperately needs your help to obtain his goal.

Can you lead Hector to the Roman emperors, or will you lead him to his doom? This is the question that the game *Rome* asks.

Obviously, the object of the game is to help Hector become emperor. This is accomplished by guiding Hector through daily life in ancient Rome and other Roman cities.

You control Hector's movements and decisions. In order to accomplish your goal, you must speak to different citizens and perform different tasks (some of which are very unbecoming a leader).

Your first task is to deliver a message from your master to a councilor. The next thing you notice, the sky turns black and the priests are screaming, "repent." Historians will kindly remind you that this game represents the time period that coincides with the eruption of Mt. Vesuvius.

You have to find a way off the island, but the boat will not take slaves; they are expendable. Now, do you remember seeing that empty toga back at the bath?

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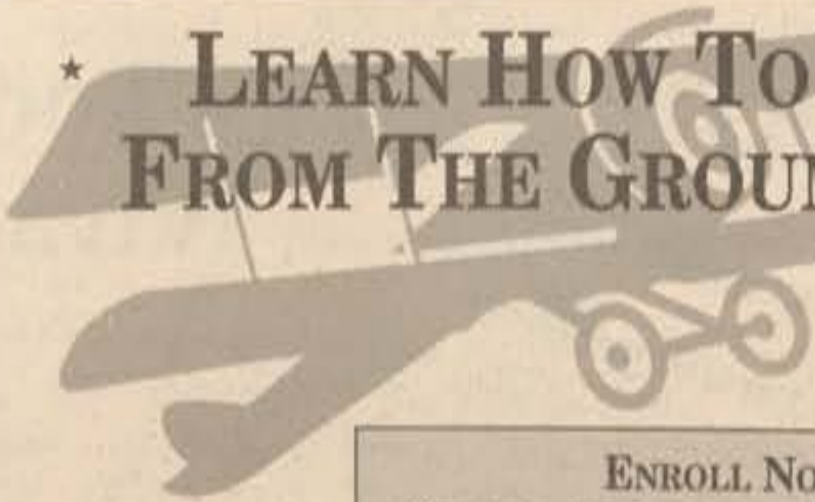
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Ten Summoner's Tales is Sting's best yet

By David Gass
National News Editor

A & M Records has recently released Sting's new album entitled *Ten Summoner's Tales*. This new album is extremely good, and is probably one of his best in years.

Although Sting's *Soul Cages* album was hailed by many as a breakthrough collection, it cannot be compared to *Ten Summoner's Tales*.

The first track on his album is called "If I Ever Lose My Faith in You." This song has been playing on the radio recently as the first single from the album.

In this song, Sting is singing about all the different people he has lost faith in and about his hopes of not losing his faith in his girlfriend. This is a great song which keeps you interested and will have you singing along with it.

The second song on the album is "Love is Stronger Than Justice." This song is about seven brothers taking down a gang of bandits in Mexico and how the love of goodness is stronger than anything.

"Love is Stronger Than Justice" is a wonderfully upbeat song that tells an interesting story. I think this song is definitely one of the best on the album.

"Fields of Gold" is the next song, and it gives the listener an easy-going song to relax with. It tells the story of two people that are in love and that wish to stay together forever in "fields of gold." This particular song has a soothing sound and, is pleasing to listen to.

"Heavy Clouds No Rain" comes next. It has a flowing, bluesy kind of sound to it. Sting is singing about how people put things off until a rainy day, and seems rather amusing to me. This song sounds a bit shorter compared to the others on the album, but it is still a neat song to listen to.

"She's Too Good For Me" is another upbeat song which will make the guys snicker. It tells of a girl who feels she is too good for him and who complains about everything he has and does.

"She's Too Good For Me" is both funny and fast-paced for the listener. The only thing I feel is wrong with this song is that it's too short; much shorter than the rest of the songs.

"Seven Days" is about a guy being given an ultimatum to make up his mind about keeping his girlfriend by the end of seven days. It has a nice beat to it and is definitely worth listening to.

A very interesting song is entitled "Saint Augustine in Hell." It has some interesting sounds to it. To tell you the truth, it's a little hard to understand what the song actually means.

During the middle of the song, another voice jumps in and says some mumbled words and then laughs. This is the one song on this



With the release of his new album *Ten Summoner's Tales*, Sting continues a long string of hits which have made him a mainstay in the music industry. Sting has made a name for himself as a cutting-edge songwriter.

album that you shouldn't even bother to try to understand. Just listen to it and enjoy.

After that song comes one called "It's Probably Me." You may recognize this song as the music video for the movie *Lethal Weapon 3* which was released last year, in which Sting teamed up with Eric Clapton.

This song is really wonderful and is my personal favorite from the entire album. "It's Probably Me" has a slow beat with a saxophone in the background. These combine to form a very pleasing song to hear.

"Shape of My Heart" is also a slow and methodical song that is quite soothing. In the middle of the song, you hear the harmonica which gives a nice extra rhythm to the already relaxing background music. This song is also very comforting and should be a chart-climber.

The next track on *Ten Summoner's Tales* is called "Something the Boy Said." This is also an easy-listening type of song

which relaxes the listener without being boring.

Just like "Shape of My Heart," this song has a harmonica jump in every once in a while. "Something the Boy Said" is a good song which continues the easy feel of the album.

The final song on Sting's album is entitled "Epilogue (Nothing 'Bout Me)."

This last song is telling the listener that no matter what someone will do to harm people, they will always be burdened by the fact that, for even a brief moment, they will know that person and remember what they did to them. The song itself is amusing in a kind of way and is a good song to end a great album.

Overall, I thought that *Ten Summoner's Tales* was great. This is truly one of his best albums since he was the lead singer for *The Police*. If you see this CD at the local mall, definitely pick it up. This is one album that should not be missed.

This is truly one of (Sting's) best albums since he was the lead singer of The Police.

Fans of Jellyfish won't cry over Spilt Milk

By Doug Watson
Staff Reporter

When I first heard the name "Jellyfish," I envisioned some neo-hippie band playing nothing more than the everyday grunge rock kind of deviant music.

Granted, if this was 1990 and I was reviewing their first album, *Bellybutton*, I wouldn't have been far off base.

Well-known for their crushed velour bellbottoms, giant top hats, and platform-heeled shoes, the band seemed to fit the chewy label "Jellyfish."

Unfortunately, despite the recognition received by *Rolling Stone* as "one of the strongest debuts of the year," the album didn't receive as much attention as did the band members themselves.

The band member's attire had even been referred to as "Sesame Street-style," which probably conjures up some pretty weird images. Of course, touring with the Black Crowes probably didn't help their situation, considering that they have practically made the seventies fashion almost mainstream again.

Three years later, Jellyfish is looking to change that image. Andy Stummer, the lead vocalist and drummer, and Roger Manning, their keyboardist and guitarist, were worried that people were missing the point of their music.

Said Manning, "We just want people to listen to their songs with open minds." Their newest album *Spilt Milk* solves that problem by basically letting their songs speak for themselves.

Their creativity extends way past the common grunge band setup of two guitars, one bass, one keyboard/synthesizer, one drum, and one vocal.

Aside from these instruments, they also use real harps, banjos, theremins, harpsicords, and whenever possible, a full string section.

According to Stummer, "Pianos are timeless, real strings are timeless, and that's exactly what we want to do—make timeless music."

The first song on the album, "Hush," took everything I had originally thought of the band and threw it back in my face.

Reminiscent of some Disney lullaby, it grabs hold of your attention with its six-part, Queen-like, vocal harmonies, and makes one think, "These people wore platform shoes?"

Fortunately, the surprise doesn't end here. The third song, "Sebrina, Paste, and Plato," is a childish tune about (I think) puppy love in an elementary classroom.

Sounding somewhat like a song from *They Might Be Giants*, it's definitely not your ordinary song, to say the least.

"Bye, Bye, Bye" is an up-tempo melody utilizing a real blues tuba as the bass section, as well as a mandolin and an accordion in the melody. These combine to form a

song delightfully different from what you might expect.

"Ghost At Number One," the band's first single, can be seen occasionally on MTV's *Alternative Nation* as well as on *120 Minutes*. It has also reached number 48 in *College Music Journal's* list of the current Top 100 Singles in the nation. Look for it to climb higher in the near future.

It's about the death of a certain lead singer. They leave it to the listener to figure out who it is.

Need a break from the high intensity club music? *Spilt Milk* just might be the album you're looking for. It is refreshingly free of additives and preservatives, like most music nowadays.

It combines actual musical instruments (not synthesized samples) and intricate vocal harmonies with the more common rock instruments to create a different, fresh sound.

For loyal fans of Jellyfish, *Spilt Milk* is a welcome change in a favorite group. For those who have never heard of Jellyfish, this will be a great new style of music to check out.

In any case, if you like the not-so-normal theme in your music and don't mind a few platform shoes, then give *Spilt Milk* a try. You'll forget the velour by the end of the first song.

Need a break from the high intensity club music? Spilt Milk just might be the album you're looking for.

Critic's Corner:

Actress Demi Moore makes *Indecent Proposal* look decent



Mike McGrath
Movie Critic

Their troubles are answered when a billionaire, Redford, offers one million dollars for one evening with Demi. All three must then deal with the consequences of their actions.

Demi Moore presents an absolutely stunning performance in this movie. From the moment she enters the screen to the very end of the movie, there is one underlying question. Is she wearing underwear?

No, sorry, that isn't the question. The question is: why would anyone give her up for a million dollars? Sure, we all have our principles.

It is easy to think of the hypothetical situation, but nobody knows what the answer would be if the actual situation presented itself.

Woody Harrelson has a great task. He has to escape the image of a stupid bartender. Surprisingly, he accomplishes this in no time at all.

There was no comedy in his performance. He gave a one hundred percent serious performance.

Look for him in more serious roles in the future. He seems to have come into his own at last in the more serious plots, instead of the previous country bumpkin-movies and shows he's played in.

There were no bad guys in this movie, just conflicting good guys. Robert Redford was rich, but he didn't step on anyone to get his fortune. Woody acts just like anyone would act in this situation.

There can only be one winner in this battle for Demi's affections. I won't give away the ending, but a good guy wins.

The movie is also very artistic. The music combines some fantastic scenery. Everyone will leave this movie with new goals in life. You will want a yacht, a big house, or even an actress.

There were appearances by some people whom you don't expect to see in a movie. Look closely and you'll find Sheena Easton, Herbie Hancock, and Rip Taylor, just to name some of the cameos.

The movie does not attack any social issues and does not try to

influence the moviegoer in any way. It is pure entertainment.

The only thing you will want to know during the movie is who will be together at the end. Sit back and enjoy wonderful performances by three wonderful actors.

Demi demonstrates her ability to cry. Yeah, I know people don't think much about this, but go with me for a minute.

Most actors, male and female, look like they're peeling onions when they cry. Some even scream and violently jump around. This isn't crying.

Demi has the natural ability to cry. I don't know if her husband Bruce Willis has anything to do with this, but I would enjoy a movie where she just cries.

So now we come to the real question you want answered: did I like the movie? Well, I can tell you that it was one of the best movies I have seen this semester. And that is saying a lot, too.

Oddly, *A Few Good Men* was another favorite of mine. Maybe it was the great acting, the wonderful story lines, or just Demi Moore. I wonder if there is any connection.

If you're looking for a good movie with a million dollar actress, *Indecent Proposal* is just for you.

If you are looking for a good movie without a million dollar actress, it's going to be hard to find a recent one without Demi in it.

If you happen to see a guy outside the theater promising women a million dollars for one night of amore, don't fall for it. He is probably a Riddle student who is just desperate.

As far as the million dollars is concerned, he probably has three dollars which he got from selling his book back to the bookstore.

- ★★★★ - Can't miss!
- ★★★ - Worth watching
- ★★ - Wait until dollar theatre
- ★ - Read a book instead.

The Pixies' Black Francis releases *Frank Black*

By Steve Mendrzykowski
Staff Reporter

I highly recommend buying this album whether you are a fan of the Pixies or not. Either way, you will not be disappointed.

Well, it finally happened after a long and agonizing wait. One of the most uniquely original alternative bands out of Boston, Massachusetts, The Pixies, has broken up for good.

Though it came as a shock to many, it had to happen sooner or later, considering all the bickering that has been going on for so long. The surprising part was that it came so unexpectedly.

I know that for many of you who have never heard of them before, this news doesn't really affect you. You may not even care about what they did as a band. But for the die-hard fans, like myself, the news was enough to throw one into a prolonged depression.

Well, the news really isn't all that bad. We'll survive, but it was very shocking to hear, to say the least. It left many with the impression that the Pixie sound was forever silenced.

This was especially so since they had just made a career move to gain more worldwide recognition by opening up for U2 on their recent, sold out Zoo TV tour.

Of course, there were many good reasons for this saddening parting of ways. Besides the band members having some problems getting along with each other, a serious malfunction in any band.

Their ex-lead singer, Black Francis, stated in a recent interview with *Details* magazine, "I've heard those songs more times than our biggest fans. I don't need to hear them anymore." Apparently, this is one indication of the reason for their split-up.

Not even a month has passed since the break up occurred and Black Francis is back on the music scene with a self-titled album (sort of) that proves he can survive outside the Pixie world, and with a reasonable amount of success.

After the break-up with his former band, he had his name changed to Frank Black, and he has announced

to the press that his musical style has also changed from that of the old Pixies sound. In this way he has totally disassociated himself from his former band.

The late Pixies' achievements included the new wave punk song called "Wave of Mutation," which was featured in the smash movie *Pump Up the Volume*. They were a regular on MTV shows such as *120 Minutes*, but they never received the wide recognition they were looking for.

When he was with the Pixies, Frank Black wrote and sang very punkish music, which appealed to a select group of people and ended up making them an underground band with little or no outlet to the mainstream. Hopefully, Frank Black will have better luck singing on his own.

Although the songs on his self titled, debut album have diverse styles, they still have the interpretable lyrics and trademark guitar rhythms that the Pixies once possessed. Only now, they are a little more mainstream.

There are some songs definitely worth mentioning off this album, ones that have made their presence known very quickly.

The first song on the album, a melody called "Los Angeles," which is also their first release, starts off awkward with weak lyrics, but after a couple seconds, develops into a truly great song, one you can easily hum to.

I especially liked the rhythm changes from the light, acoustic guitar, to the heavy, electric guitar and then back again.

After a pretty cool synthesizer-smothered, cover version of the classic Beach Boys song "Hang On to Your Ego," there is undoubtedly the best song on the album, entitled "Fu Manchu."

Like a couple of other songs on this album, this one has that romantic Roy Orbison type of style to it, complimented by a well-played saxophone section.

Even though many of his songs on this album have that distinctive Pixies-ish sound, Frank Black has done a lot of things differently than when he was with his former band.

For one, in the songs on this album he surprisingly doesn't even let out one of his famous blood curdling shrieks or howls that were very common when he was with the Pixies.

He has also added many new instruments to his rhythm section, including not only several synthesizers and keyboards, but also a complete saxophone section and a full orchestra.

Overall, I really liked this new album from the former Pixie Black Francis. Its songs' rhythms are very contagious, and I sometimes catch myself humming them without even knowing it.

Actually, I liked *Frank Black* so much that I must have played the album more than four times through the first day I got it.

As an added bonus, Frank has added a montage of some very strange pictures of himself in the cover sleeve. A hint for those of you into that kind of stuff.

Frank Black shows that Black Francis has a lot of potential for future hits. This is just the sort of music for those Pixie-starved fans who have waited for something new to come from any of the former band members.

I highly recommend buying this album whether you are a fan of the Pixies or not. Either way, you will not be disappointed.

Naval Aviation

By Eric Holzer
NAC President

On Tuesday, April 6, the Naval Aviation Club hosted the static display of an SH-60B Seahawk helicopter from HSL-46 "Grandmasters" squadron. The "Grandmasters" are based at NAS Mayport. The LAMPS Mk 3 ASW helicopter was flown in by Lt. Commander Ed "Spike" Rybold, Lt. Pete Hague, and AW2 Tony Purdy. The SH-60B has multiple roles, such as SAR, medi-

vac, vertical replenishment of ships, datalink and its primary mission is ASW.

The helo crew arrived at 13:30, joined the club officers for dinner, and then spoke at the club meeting. The crew departed for NAS Mayport at 20:00 the same evening.

Thanks go out to all club members and officers, especially Captain "By" Byington without whose support none of this would be possible.

Have a nice summer and hope to see you in the Fall.
Fly Navy!!!



The Naval Aviation club hosted a static display of an SH-60B Seahawk from HSL-46 NAS Mayport last week.

Eagles Flight Team

By Melinda Matricciani
Member

Well, ladies and gentlemen, the semester is almost over for ERAU, but not for the Eagles Flight Team. On Friday and Saturday, eighteen competitors and coaches are leaving for Killeen, Texas. When they return they will be two-time National Champions!!!

We would like to thank every team member, coach and sponsor for the team's success this semester.



By Chris Hildebrandt
Public Relations

I would like to start off this article by saying goodbye and good luck to our graduating seniors. Bob "Even though he was President, he still couldn't get a piece" Mallon, Dan "I can hit anybody with a golf ball any day, any time, any course" Stoffler, and Bill "For a guy who had perfect attendance at the meetings, it would be nice to see you around once in a while" Lewis.

On a lighter note, congratulations to our new Executive Board, President Bill Tallman, Vice President Tom Mistretta, Secretary Tyson Tanner, Treasurer Dan Turner, Alumni Relations Scott Foure, and Sgt. at Arms Rob Telep. Hopefully next semester will be as good as this one.

Now for Beau. I know you are a romantic at heart and that you love women, all women, two legged and four legged, but why did you have to go all the way to Lakeland to soil

Without everyone's support and spirit, we couldn't have made it this far.

Even though we are leaving for Nationals, the fall officers have been elected. The officers are:

- President: Rob Bitzer
- Vice President: Dave Arribas
- Secretary: Chris Durand
- Treasurer: Erik Wichmann
- Public Relations Officer: Kellene Gaetaniello

Congratulations to everyone for their effort this semester. Enjoy your summer and come back in the fall ready to do it again!!!

you wild outs? Coincidence...I think not.

Thanks to all the Brothers for working on Adopt-A-Highway last week. The world is a cleaner place because of us Delta Chis (except Delphin of course who's excuse for not showing up was !*#% NO, I'm not going!) Good attitude Delphin.

Louie, the Fisher Price washing machine is on order for your enjoyment.

For our pledges, you still suck, your going to be worthless pledges all summer long, and don't forget it. But seriously you did a good job this semester but, it is not over until the fat lady (or Riddle chick) sings.

Good luck on all of your exams next week and may you pass them all with flying colors.

P.S. I am glad that this is the last article that I have to write. I am never going to do this article again. Too many complaints about it. Everybody can complain about it, but when I ask for some assistance no one says anything. I never said that I could write.

ΣΠ

By Michael Sieberer
Member

First thing I want to thank Delta Lonebrow for the inspiring and informative articles throughout the semester. Maybe next semester we can really get together with Playboy and have a joint party with them.

The Orchid Ball went very well and everyone had a good time. It was at the Holiday Inn in Sanford and somehow most of the brothers managed to find their way in the dark even though the directions were misleading. We thought we had lost Delta Ballou and Delta Barracuda was getting very frantic, but everything worked out. During the festivities, Delta Tenderfoot especially had his fill of food prancing from table to table (\$13 for what?). Delta Lonebrow prepared an interesting slide show with only every second picture including him.

Among the people that attended including two alumni, Delta Cutip

and Delta Jaws. Everyone appreciated their presence, especially the new weasels who had a new respect for Delta Cutip.

Some of the brothers went out of town last weekend during spring break and they made it all back safe and sound. Delta Divebomber and Delta Cooler headed south to West Palm Beach and had a blast. They headed to the Marina to go sailing, and finally had some good home cooking. Loved the soup Mrs. Waddle! Delta Red Baron, Delta Barracuda, and Delta Tannenbaum headed north to North Carolina to celebrate up there. They took the daily trips to the railroad tracks and enjoyed the Butter Beans. Delta Linus and Co. traveled to Margaritaville with some female companions. They even got Jimmy Buffet's signature for Delta Egghead.

Until the next article here's the scrambled word:
YNSIN NPI

Clubs Policy

- ➔ All articles must be type-written, double spaced or on disk format (unformatted in Word Star or Microsoft Word).
- ➔ Deadline for submission of all club material is **Wednesday at 5 p.m.**, one week prior to publication.
- ➔ Photos may be submitted with club articles.
- ➔ All submitted material becomes property of the *Avion* with the exception of disks.
- ➔ The *Avion* reserves the right to edit all submitted copies.
- ➔ For more information stop by or call the *Avion* office at (904) 226-6049.

Air Force ROTC

By C/Maj Scott Kulka
Public Relations

On 3 April, Air Force detachment 157 performed its Pass-In-Review ceremonies. The event takes place each semester and the main purpose is for everyone to witness the change of command for the cadet group. The cadet command was passed from C/Col Bill Lockhart to C/Col Jon Shaffer. The ceremony also included a parade by the cadet corps, a performance by the Special Operations Team, recognition of cadet officers and presentation of awards. Some of the guests on hand to see the ceremony included Major General Daniel Riley (USAF ret), Brigadier General James McCarthy (USAF ret), Colonel Braim (US Army ret), Dr. Pope (Dean of Academics), Nancy Sitwa (First Lady of ERAU), and commissioned alumni of this detachment.

The reviewing officer for Pass-In-Review was Colonel William Rider, USAF. Colonel Rider is the Deputy



By Travis Logan
Historian

Well, the semester is slowly coming to a close, and another week has passed. Last weekend, the Sigma Phi Zeta of Lambda Chi donated its time and effort to the community by cleaning up part of Beville Road as it

Chief of Staff for Logistics at Ninth Air Force, Shaw Air Force Base. Colonel Rider was also the guest speaker for the detachment's Military Gala that evening.

The Military Gala took place at the Voyager Hotel in Ormond beach. During the Gala, more awards were presented to the cadets. These included Air Force Association awards, General Military Course Cadet of the Semester, Professional Officer Course Cadet of the Semester, and Field Training Preparation awards. The graduating seniors were recognized and given their "butter bars" by new Arnold Air Society members. A short video presentation was given by Mission Support Staff. This video captured some of the best moments of ROTC life this semester. Afterwards, Colonel Rider gave a slide presentation about the Air Force's logistical role during the Desert Shield/Desert Storm campaign. The Gala concluded with some music and dancing by the cadets and cadre.

is designated Adopt-a-Highway, good work guys!

The year to come has a lot in store, so let's not forget our goals of raising money for the 20th and the organization of a housing committee. Remember brothers, this is your chapter and you can either watch things happen or make things happen. Have a great summer.

S.H.A.P.E.

By Michelle Romine
Member

The members of S.H.A.P.E. would like to apologize if we offended anyone during Environmental Week. Our purpose for writing on the sidewalk was to make students more aware of the environment.

We thought that writing on the sidewalk was the best way to do this and use as little paper as possible.

AAS

By C/Maj Amie Tavanese
Public Relations

The Kenneth L. Tallman Squadron of the Arnold Air Society (AAS) sponsored a time capsule burial to honor World War II veterans on April 2, 1993. The time capsule contained memorabilia of the service that the World War II veterans so generously gave in honor of their country. This monumental event was the result of one Arnold Air Society member's respectable idea that grew to be a detachment wide sponsorship. Brig Gen Robin G. Tornow, the Air Force Commandant of AFOTC, came from Maxwell Air Force Base to deliver the commemorative address. At the same time that the ERAU Daytona Beach campus held this commemorative event, the Prescott



By James Jalowiec
Member

This Thursday will be the last meeting for the semester. It will also be an important meeting to attend since we will be discussing several things.

We might have our club T-shirts so bring along an extra \$10 to buy a shirt. The actual cost will be around \$6. There is a possibility that the shirts won't be made in time for this weeks meeting since the printer has a backlog of orders from Spring Break. If you're around in the summer you will be able to get one, otherwise they will be available in the Fall semester.

Elections for next years officers will be held at the meeting. Nominations will still be taken. We will have the members vote on the

Army ROTC

By MS IV Class
Members

Army ROTC successfully completed its semester with an awards ceremony on April 1, 1993 in the JPR Student center. Selected cadets were recognized from each class level.

Superior cadet awards were presented to the superior cadet from each class level; from the MS IV Joseph Lineberry, MS III class Michael Kimmey, MS II class Richard Hedge, and from the MS I class Jared Pollack. Cadet William Holburn received his Army com-

Everything that was written was a fact quoted from published material and was not in anyway the opinions of the members of S.H.A.P.E.

We received permission from the maintenance department and we tried to put the quotes as close to the sprinkler system as possible, so it would be washed off every night.

Once again, we are sorry if we made anyone angry, that was not what we wanted to accomplish. And please, take care of the Earth, it is the only one we have.

campus held a similar event. There is a marker above the burial site that will remind students, as they walk by it each day, of what is inside and what it represents. It is the intention of the AAS that in the year 2043, the students will honor WWII veterans as much as we have in 1993!

On another note, AAS would like to congratulate all those society members that are graduating and will not be returning in the Fall. It has been a memorable 4-5 years to say the least. AAS would like to wish all those cadets that are about to be commissioned second lieutenants in the United States Air Force a hearty "Good Luck." The AFOTC program has taught you a lot about the U.S. Air Force and about yourselves, use this knowledge wisely as you leave ERAU and don't ever forget the basics, as everything stems from there.

three positions: President, Vice President and Secretary/Treasurer. Start thinking about who you would like to be the new officers.

For our graduating members, we have Honor Cords for those of you who would like to buy one. If you would like to buy one but cannot make the meeting, get in touch with Dr. Pratt in room A-202. There is one hanging in our club board if you would like to see what they are like.

Concerning *Creations*, we will be accepting submissions for the Literary and Visual Arts Magazine next Fall. So if any students would like to have their short stories or poems published, you can start working on it over the summer.

The club will not be holding meetings during the summer semesters so we'll hopefully see you again in the Fall.

mentation medal for an excellent prior service record.

Army ROTC formal dining out was held on the third of April at the Hilton at Indigo Lakes. The guest speaker for the event was LTC Charles Gemar, one of only five army astronauts. LTC. Gemar spoke about his experiences as an astronaut and his life in the military. He also presented a movie about one of his voyages into space.

Overall it has been a most successful semester for Army ROTC. The MS IV class wishes good luck to the MS III's going to camp this summer and everyone else to have a safe and good summer.

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Pilots Take Action!

By Phil Boyer, President of the Aircraft Owners and Pilots Association

Countering the Clinton Administrations unwise plan to increase federal taxes on aviation fuels by \$400 million and to add an unprecedented \$151 million in annual registration fees (up to \$278 per airplane), AOPA has asked its 300,000 members to protest to Congress.

Instead of the tax hike, AOPA proposes a "4-for-4 Plan" to save \$4 billion by cutting four outmoded or troubled multi-billion-dollar FAA programs-- MLS, Long Range Radar Replacement, the Advanced Automation System and the Area Control Facility.

Pilots have bombarded Congress with more than 20,000 letters in just the first two weeks following our Pilot Alert.

A Cincinnati pilot told congress, "...do not drive another nail into our coffin."

I urge everyone to add their important voices as Congress considers whether new taxes on general aviation are really the way to go.

America's pilots want to do their fair share to cut the federal deficit. But injuring the aviation industry with another round of ill-advised taxes isn't part of the answer

This information was brought to you courtesy of AOPA, who urge you to take action against this plan. This issue may affect many here at Embry-Riddle. Contact AOPA at 1-800-USA-AOPA for more information about who to write to.

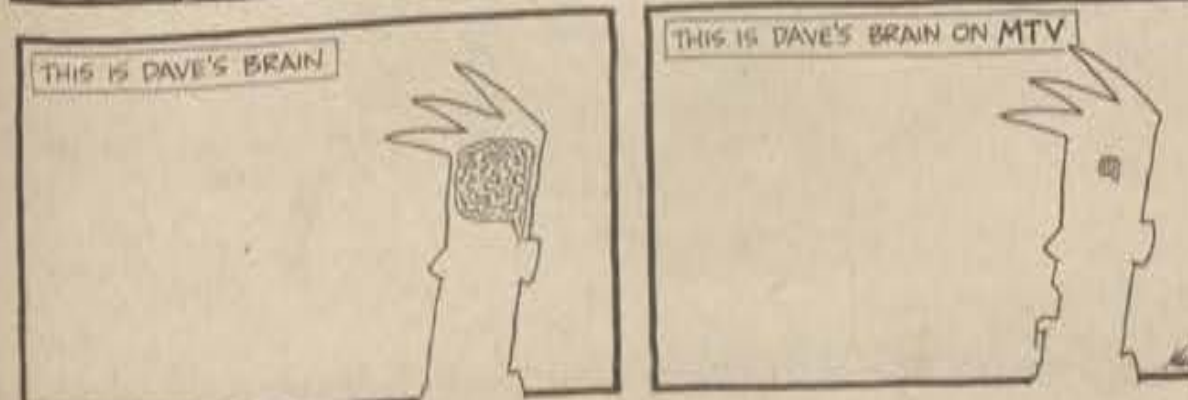
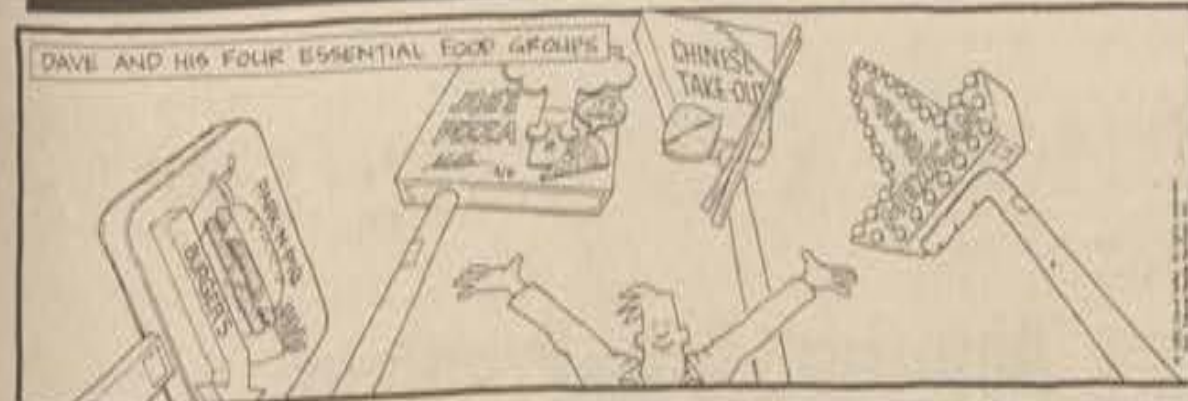
Calvin and Hobbes

by Bill Waterson



Dave

by David Miller



Far Side

by Gary Larson



Chicken serial killers



"One more time: You were at the park, enjoying the afternoon, when you distinctly heard the defendant turn to his dog and say: 'Look, boy! A stickman!'"



Rusty makes his move.



As witnesses later recalled, two small dogs just waited into the place, grabbed the cat, and waited out.



"Am I glad you boys came along!... My horse seems to have come up lame."

Bound and Gagged

by Dana Summers



Autos for sale

1983 Mazda RX-7 rebuilt engine 98,000 miles. Asking \$3,500 OBO. Call Jeremy at 226-6901 between 12-5 p.m.

Buying a vehicle? Buy from a Riddle Alumni. New and used cars and trucks/Program cars. Contact Mark F. Moxam at Gary Yacoma's Feed executive car sales. 947-4455. Bring this ad!

For sale: '86 Suzuki GSX-R1100. Only 14,500 mi. New miterizers, RK O-ring chain and sprockets. Candy blue paint job, tank bra. Includes cover and too many extras to list. Asking \$3200 obo, not a toy for a little boy.

1982 gray Isuzu truck for sale. Great on, low mileage. Only 3900! Call Bridgette at 226-7145

Motorcycle for sale: Honda 250 VTR 1989 - clean, low miles, great condition. Asking \$2000 obo. Call Doug @ 274-2876

Honda Magna V-45, 1983 Great condition. Looks like new. For only \$1500. Call Arnie @ 257-4762 or leave a message.

Roommates

Roommate needed for Summer A and B and possibly Fall. Fully furnished 2 bedroom apt 7 miles from campus. Male or female, non-smoker, you get master bedroom with king size waterbed. \$200 plus 1/2 phone and elect. Amenities include pool, laundry, tennis courts. Call Brian and Bill at 255-8444, leave message.

House to Share, (new) quiet Port Orange neighborhood. 3 bedrooms, 2 bath, fully furnished. Cable, washer/dryer, microwave. 10 minutes to school. \$235 per month, 1/3 utilities. Paid 756-0419, 788-8870.

2 mature roommates needed! Huge, 2-story 3 bedroom 1+1/2 bathroom house is available on April 30, 1993. The spacious rooms are located upstairs. Rent is only \$225 plus 1/3 utilities (low). If interested, call Jose Gaudin at 226-6185 for an appointment or leave a message at CAAR.

Male or female non-smoker. Fully furnished townhouse at Jeremy Oak Villas, 2 mi. from school. Cable, washer-dryer, br at night. Rent is \$203 plus 1/3 utilities. Call Jackie or Perry at 760-3950.

Need someone for Summer A+B. Beautiful and clean, full furnished, 3 bedroom, 2 1/2 baths from beach, near the Marriot. \$235/mo. inc. util. Brian 254-2835.

Female roommate needed for Fall 93/Spring 94. 3 bedroom apartment. 1650/mo., 1/3 electric, 1/3 phone. 2 pools and tennis courts. 3 miles from Riddle. Call Katie at 253-9656 ASAP.

For sale

For sale. Everything. Two beds - full size, almost new, both for \$200. Futon Sofa - frame and mattress, black \$125. Chair and Ottoman - black leather, very stylish \$95. Metal shelving unit - black, perfect for stereo, TV \$50. Much more. Call Steve @ 767-3308.

Student/Inventors Alert own instead of renting. 3 Bedroom home in nice area only 2 miles from Embry-Riddle for only \$57,500! Call Greg Antonish at RE/MAX Realty today. 287-0201.

Two bedroom, Two bath, Townhouse for sale. Pool cablo, water,garbage included. 2.5 miles from ERAU, 1 mile from I-4 and shopping. Call 788-4943.

For Sale: Handgun-9mm Ruger P-89 \$350.00 obo. Guitar-washburn G-7v with amp. ask \$325.00 obo. Call 767-4806.

What do coquettish women do to men? Find out in Trivial Pursuit Genius Edition. \$13 call James 226-7491.

Scuba Diving- I have a gift certificate for open water certification. He trained in an indoor pool. Gift certificate is worth \$125.00. I'm selling it for \$90, if interested call Steve at 248-2181 or leave a message.

For Sale- Refrigerator, 3ft. tall, Works great. Strange paint scheme. \$50 call Keith @ 226-7526.

Couch for Sale- eager to sell brown couch. Has hide-a-bed and is in great condition. Call Travis at 322-2747 asking \$75 OBO.

Mountain lake. Diamond back Sorrento. Very good condition, recently tuned. New \$400, asking \$175 with all accessories. Call Steve 767-3308.

For sale!! Pioneer 6 cassette changer w/remote for home stereo system, 1+1/2 yrs. old w/ 1+1/2 yrs. warranty left. New \$380. Only \$200 excellent condition. Call Steve @ 252-6812.

Remote control helicopter, everything to fly, needs work. \$100. Steve 252-6812

For sale: Sony CDX-5180 car stereo CD Player. Detachable face. 2 yr 7 mths left on warranty. \$300 obo. Call Aaron at 760-4866.

For sale: Sony 19" color TV. Trinitron black tube. Stereo hook-ups \$300 obo. Call Aaron 760-4866.

Compaq III portable computer. 30 meg hard drive, 5 1/4 high density disk drive, 2 meg ram. 258 7521

Graduation sale. Desk \$30, chest of drawers \$15. Kitchen table w/4 chairs \$80. 2 couches \$25, \$35. Love Seat \$15, single bed \$25. Call Todd at 760-9265. Leave a message.

CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 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 for two issues and may be renewed by filling out another classified ad card.
- ➔ No classified ads will be accepted over the phone.
- ➔ For more information, stop by or call the Avion office at (904) 226-6049.

For Sale. Kitchen Table Lt. tan with brown. Very nice! OBO call Chris @ 767-0739

Digital Tachometers, hand-held. Touch to rotating object (like propeller spinner), it tells you exact RPMs. Brand new. list \$215, want \$75 each, have three. Call 672-7371 during the day.

Furniture for sale. 3 piece bedroom set. Includes queen size bed, long dresser with large mirror, tall chest of drawers, and night stand. Light oak finish. Excellent condition \$300 obo. Call John 788-5124.

Wanted! Sale- \$80.00 must go great. Call 767-1308.

DOWNTOWN USED FURNITURE. 9000 sq. ft. Showroom Tues. - Sat. 10-5:30 406 N. Beach St. Daytona. 239-9884. Buy and Sell.

Miscellaneous

!!!!FREE!!!! Couch & Matching Chair/Years for the taking. Needs minor repairs. Need to pick up on or before April 25th! Call Linda @ 760-8079

Avon computer skin care and color analysis by phone! Call Nancy at 426-7275 after 6 pm. Free analysis, samples and catalog.

Car audio equipment at discount prices!!! Pyle, JVC, CRUNCH and more. Give yourself the best for less. Call (904) 426-7275 for more info.

DOUG, Smart choice and Good luck at UCF!! BLADERUNNER

ATTENTION

All ERAU male graduates must complete the "De-Radicalization Therapy", in order to ease transition into the real world before graduating. DEPT. OF MENTAL HEALTH

Congratulations: Steve Schurg, Gary Saabers, Lindy Meckel, Mike Kent, Bill Dreegan, Eric Diaccio, Brian Emmert, Craig Morris, Chris Pagnotta, Brian "Wall," Jan Famous. Breakers #1.

THANK GOD I'm finally leaving this god forsaken school. Four years is too long for anyone one in this place!! SIGN FREE-AT-LAST GOD ALMIGHTY I'M FREE-AT-LAST.

VICTOR SHELDON Hey you pathetic little, no friend having, pansyboy, just because you have no life what so ever what makes you think you know anything about fraternities? Just shut your mouth until you get a clue.

#7300 I don't wanna keep the bright flame of your ego going. So I'll just stop blowing in the wind to love you is a sin. ADIOS #7645

QUESTION, How many AMT students does it take to screw in a light bulb? Answer: One, and he gets three credits. CONCERNED FLIGHT STUDENT

PHIL, Your Birthday is tomorrow and even though you have classes I'm sure you'll have a joypop. I mean a good day.

NIOEL JAMES, Your gear was up and you North Carolina won by six! SINCERELY, MR. TIMES

VICTOR SHELDON, I have never paid for a friend, but I have paid for a lover. Just ask your mom. A LOSER WITH 200,000 FRIENDS

Mon, Thanks for everything you've done for me this semester. Have a great summer! Wack.

To the person or persons who took my NASA photos during SpaceWeek last month. Please return them to Box 8262 immediately. No questions asked.

TO SNUGGLEMUFFIN It seems as though the time that we have together grows short. I almost wish we were staying here so we could have more happy but parties. Well if were lucky the summer will hold some interesting memories. I don't know how I will spend the summer without seeing you everyday, but we will make it. I love, stink plug, Tomke

truck, too cool, golf club FROM HAPPY STICK 7

PUSSYCAT Sorry I haven't written in awhile. You know how busy things have been. I thought I'd tell you how much I love you and thank you for all the wonderful things you have done for me. I'll always love you. NO SHARE!! KITTY

HEY LITTLE POD Congrats. The big day is almost here, I can't wait to see you. Please come to Brunswick for the Springtime! You are the Pod. ALL MY LOVE, ROCCO

WAYNE NEWBY I think it is time we come out of the closet. I want everybody to know about us. I love you Wayne & I know you love me too. KISSYS & HUGS CHUCK

SCHWEY You're finally done! Congratulations! Now I know that this school should be a breeze for me since they are letting you graduate. (Just kidding). I'll really miss you QWEEDO!

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Congratulations and Good Luck, Graduates

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Ultima

(continued from page B3)

The program makes good use of expanded memory. At least 2 megs of RAM is required. This allows for smooth movement and fluidity during the game. The smoothness does depend upon the speed of the machine. Sorry all 286 owners, only a 386 or better. This game was played on both a 486DX and a 386SX at 16 MHz. Movement on the 386 was less smooth, but quite impressive.

A convenient feature allows the graphics detail to be adjusted. This feature simply changes the texture of the walls and objects. Although the change is noticeable, less detail greatly improves play and performance.

A sound card is a must for this game. Digitized speech is limited to the introduction, but the different voices are rather interesting. The game has a musical score, but this gets annoying after a while.

Some interesting sound effects include the sound of bowing water, your head bumping into walls and the sounds of your footsteps as you

run. No, that other sound is not from the game, it is your own heart beating. *Underworld II* is a strong sequel to Origin's new virtual game series. If you like *Ultimas*, adventuring or are simply interested in virtual reality for your personal computer, then give *Ultima Underworld II: Labyrinth of Worlds* a try.

Workstation

(continued from B3)

the commercial market for strong growth.

"Total dollars in the technical market is flattening out," he said.

But while the commercial market will draw workstations into closer battle with PCs, Pearson said it would be naive to think workstations could be swallowed up.

"It's easy to say you can take a PC and turn it into a workstation by making it run faster," he said.

But experts said the boundaries between the products will continue to blur.

"Twelve months from now, you will be hard-pressed to define what is a PC and what is a workstation," Weiss said.



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