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# SPACE TECHNOLOGY

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## "Destiny in Space"



The Space Shuttle *Discovery* floats away from a satellite that was later retrieved during mission STS-51 last month. The camera that took this picture will be used to produce a new IMAX movie with a working title "Destiny in Space."

## Columbia lands in California

By Brian Gamage  
*Space Technology Editor*

After spending 14 days and thirteen minutes in space, the Space Shuttle *Columbia* landed on the dry lake bed at Edwards Air Force Base, California on Monday morning.

The orbiter touched down on time and basically unscathed, at 10:05 a.m. EST, although NASA is investigating why a piece of engine nozzle insulation fell off during ascent two weeks ago.

Inspectors also found an unusual form of tile damage that may or may not be related to the missing piece of insulation. Neither anomaly threatened the success of the mission, according to NASA officials.

*Columbia* beats the shuttle record it set last year during STS-50 to become the longest mission to date in the shuttle program. STS-58 is only surpassed in mission length by three Skylab missions, which occurred in 1973 and 1974.

NASA plans to fly the oldest shuttle in the fleet back to the Kennedy Space Center on November 7. The orbiter's two-day trip on top of a modified 747 will end on November 8 when they will land at the Shuttle Landing Facility. The piggy-back ride will make a stop in San Antonio, Tx.

On Sunday evening, Commander John Blaha and Pilot Rick Searfoss activated one of *Columbia's* three hydraulic units to conduct a routine pre-landing check of the orbiter's moveable surfaces.

The orbiter has no use for these "aero-surfaces" in space, but requires them in order to maneuver during landing, just like an airplane.

After the crew ate lunch on Sunday, Blaha, Searfoss and McArthur began packing away all of the gear in *Columbia's* crew cabin, while the four payload crewmembers, Rhea Sedon, David Wolf, Shannon Lucid and Payload Specialist Marty Fettman started stowing equipment in the Spacelab.

Controllers could have postponed the landing by another orbit if weather became an issue for the first scheduled try. The fires around Los Angeles proved to not be a weather concern for NASA and the landing occurred exactly on schedule.

## Russia joins international data highway

NASA press release

U.S. and Russian scientists soon will be able to communicate with each other directly over an international computer network now being set up by NASA's Ames Research Center, Mountain View, California.

Starting in January 1994, the NASA Science Internet (NSI) will connect research sites in the United States with Russia's Research Institute (IKI) in Moscow. Nine additional Russian space-related institutions, including the Gagarin Cosmonaut Training Center and NPO Energia, will be connected through what is called the Russian Space Science Internet (RSSI).

The NSI link to Russia will support 15 collaborative science programs in the first phase of the project, such as research in life sciences, solar system exploration, astrophysics, space physics and Earth sciences.

As part of the arrangement, NSI will loan computer networking equipment to Russia.

"We're not going in there and building their network," said Christine Falsetti, Ames' NSI Project Manager. "We're teaching them how to build their own network. Our scientists are very enthusiastic about the start of this service."

## Orbiter Update

**Columbia (OV-102)**  
 The Space Shuttle *Columbia* is currently at Edwards Air Force Base, California where scientists are servicing the second Spacelab Life Sciences Laboratory. Some of the data to be analyzed were collected from experiments on how the seven astronauts and 48 rats reacted to 14 days in zero gravity.

**Endeavour (OV-105)**  
 The orbiter *Endeavour* is at Launch Pad 39-A where technicians will begin payload installations this week. The crew will arrive today to conduct a countdown demonstration test on Friday. *Endeavour* is scheduled to begin STS-61 to retrieve and service the Hubble Space Telescope on December 1.

**Discovery (OV-103)**  
*Discovery* is currently in the OPF bay 3 where technicians are leak checking the main propulsion system and preparing to install Spacelab-2 and the forward reaction control system. *Discovery* is scheduled to launch again in mid-January with the Wake Shield Facility and a Russian Cosmonaut.

**Atlantis (OV-104)**  
 The Space Shuttle *Atlantis* is still undergoing modifications and refitting at the Rockwell International Plant in Palmdale, California. *Atlantis* is the last orbiter to receive the overhaul, which will allow for longer missions and landings assisted by a drag chute. *Atlantis* is scheduled to launch late in 1994.

## Congress takes budget axe to DC-X program

McDonnell Douglas press release

The Ballistic Missile Defense Organization has notified McDonnell Douglas that funding for the DC-X single-stage rocket technology program has been exhausted. Flight testing has been halted pending future funds.

In the past two and a half months, the DC-X has completed three successful suborbital flights designed to demonstrate vertical takeoff and landing, subsonic maneuverability, airplane-like sup-

portability and maintainability, and rapid prototyping development.

Prior to the flight tests, the DC-X successfully completed nine static firings and two preflight readiness static tests.

Each time the DC-X has been tested its flight envelope has expanded to subject the vehicle to increasingly higher altitudes, velocities, dynamic pressures, angles of attack and flight durations. The DC-X is the first vehicle to land vertically on earth.

Last Thursday a flight attempt was scrubbed

following vehicle shutdown on the pad.

At 1.5 seconds into the engine start sequence, the vehicle on-board monitoring system detected out of tolerance parameters and immediately commanded the vehicle to shut down.

The DC-X flight crew plans to continue to investigate the shutdown, determine required corrective actions, and maintain the vehicle and ground support systems in a readiness state, preserving the option to resume flight testing at a later date, if funding is made available.

## Astronauts use virtual reality to train for Hubble repair

➔ Before the astronauts work in space, they practice in a very new and very different environment — cyberspace.

By Brian Gamage  
*Space Technology Editor*

A few brave astronauts next month, will climb out into the emptiness of space and attempt the most daring and risky satellite servicing mission in the history of American spaceflight.

The crew of the Space Shuttle *Endeavour* will perform the first scheduled repair and servicing of the Hubble Space Telescope (HST) while flying on mission STS-61.

currently scheduled to launch on December 1. While the mission may be deemed one of the most difficult extravehicular activities (EVA) ever, the astronauts have undergone the most rigorous and unusual training exercises in the history of the program.

In addition to training in the Johnson Space Center's Weightless Environment Training Facility (WETF), which is just a very large swimming pool, the astronauts have been using computers, data gloves and virtual reality headsets to simulate the training exercises.

One of the major lessons learned during the INTELSAT retrieval last year on *Endeavour's* maiden voyage was that the underwater training did not accurately prepare the astronauts for the forces their movements would impart to the satellite in the vacuum of space. The data collected in the underwater exercises resulted in the satellite spinning almost out of control when the astronaut tried to grab it with a grapple bar.

In an attempt to solve this problem, the training exercises now include the astronauts entering into a preprogrammed three-dimensional computer-generated environment, called cyberspace, and working through the repair steps and procedures.

The simulation exercises provide the opportunity for all elements of the mission team — flight crew, shuttle and payload ground and on-orbit controllers — to carry out critical portions of a mission in an environment in which simulated circumstances require on-the-spot reworking of schedules and procedures.

The major constraint on NASA's

ability to service HST on this mission is the amount of work that can be completed during the flight. The current plan calls for three days of EVA, a day to redeploy HST and another day to assure safe return of *Endeavour*, which might include closing the cargo bay doors by hand.

Astronaut training began in March of 1992 and have centered around the replacement of two primary parts. The Wide Field Planetary Camera II (WFPC-II) will replace the current WFPC and the Corrective Optics Space Telescope Axial Replacement (COSTAR) will hopefully correct for the spherical aberration on the telescope's primary mirror.

The mission is scheduled to last 10 days with a landing at KSC.



Astronaut Jeffrey Hoffman (bottom) uses a power wrench to open a stowage door on a mockup of the Hubble Space Telescope in the underwater training pool. This traditional training is now being supplemented by computer-generated surroundings (left).



A member of the programming team that designed the virtual reality software tests the headset and gloves for fit and comfort. The astronauts who are scheduled to perform extravehicular activities to repair the Hubble Space Telescope have been training with this equipment.



# Kissimmee Air Fair braves winds to carry on

By Beth Grabowitz  
Staff Reporter

Amid darkening skies which threatened to burst and a fierce wind that made flying almost impossible, Kissimmee Municipal Airport opened its gates early Saturday morning to begin the 29th Annual Florida State Air Fair. The Air Fair, held on October 30th and 31st, was sponsored by the Rotary Club of Kissimmee. All the proceeds benefited local charities, and as a result over a million dollars has been donated since the Air Fair began.

Among the static displays were a unique combination of civilian and military aircraft. The Navy and Marines exhibited several helicopters while the Air Force displayed an HC-130 which is used for search and rescue missions and for refueling other aircraft.

Also on the ground was a NASA Aerovan, a walk-through trailer which featured displays focusing on current NASA research and development on aerodynamics, materials and structures, propulsion and flight systems. These displays present NASA's role in future directions toward development in laminar flow, advanced design concepts, composites, passenger safety, and severe weather research.

Before the airshow even began, Delmar Benjamin was showing off

in his Gee Bee. This plane is an exact replica of the Gee Bee R-2, a barrel-shaped, stubby-winged, radial engine aircraft. Its small size make it quite fast and highly maneuverable. Benjamin has logged more hours in the Gee Bee than any other pilot, including Jimmy Doolittle.

When the airshow was about to begin, Sandy Sanders, America's premier airshow/airrace announcer, grabbed everyone's attention and held it as he lucidly and humorously described what each performer was about to do.

The Eagles Aerobatic Flight Team burst into the sky in a flurry of smoke and amazing talent to perform their routine. The team consists of Charlie Hillard, Gene Soucy, and Tom Poberzny. Separately, each has won the U.S. National Aerobatic Title, and together the three have competed in and won many competitions, including the Team World Championship in Salon de Provence, France in 1972.

Their performance included several synchronized moves such as hammerheads and loops. They also performed a low pass right over the runway in close formation. One of their most daring moves was when all three flew straight for the crowd while in a line and then the two outside planes crossed in front of the middle one.

Besides flying with the Eagles,

Gene Soucy also flies solo in his "Showcat," the first Grumman biplane to be used in airshows since the 1930s and the first agricultural aircraft to be used in the airshow environment.

In his act, Soucy performs a smoke and noise solo routine. With a night pyrotechnic show called "Firelight," but the most amazing part was when Teresa Stokes got in the plane and then climbed on the wing to begin her wingwalking routine. The combination of the Showcat's light wing loading and high lift airfoil section provide the perfect slow speed performance for the wingwalking show.

After taking off at Orlando International Airport, an F-15 Eagle flew to the airshow and performed. The F-15 is an air superiority fighter with attack capability. It demonstrated several of its high speed maneuvers, including a vertical ascent while accelerating.

In one of the most exciting performances of the show, Ken High awed the crowds as he fired up the two jet engines on his Super ShockWave Jet Truck and then raced Soucy's Gee Bee which was no more than 30 feet above the runway - and won!

The jet engines give High's truck 25,000 horsepower and enable it to run at over 300 mph. This gave it the approximate power to weight ratio of an F-14 Tomcat fighter.



This Gee Bee R-2 was skillfully put through the paces by Delmar Benjamin. Benjamin has more hours on this aircraft than Jimmy Doolittle who set a speed record in one.

## Aviation Trade News

**AOPA secures political support for DUATS**

House and Senate conferees have agreed to add \$9 million to the 1994 Transportation Appropriations Bill for the Direct User Access Terminal System (DUATS), assuring the continuation of this cost-effective way to provide pilot weather information and flight plan filing. "The 1994 funding allows us time to examine the issues surrounding DUATS or other pilot-accessed systems to fully grasp the cost, efficiency and aviation safety benefits of new information technology," said AOPA president Phil Boyer.

While the FAA proposed to essentially kill the DUATS program in 1994, U.S. Senator Frank R. Lautenberg (D-NJ) called instead for a review of DUATS by the General Accounting Office to determine whether the program can be made more cost effective. Lautenberg is chairman of the Senate Appropriations Committee

subcommittee on transportation. Boyer praised Lautenberg for leading the effort in Congress to extend DUATS funding. Boyer also thanked Congressman Bob Carr (D-MI), Lautenberg's counterpart in the House of Representatives, for his willingness to compromise on the DUATS issue. AOPA contends that DUATS pilot-accessed computer briefings cost the FAA \$2.50 each compared to the cost of the FAA Flight Service Station system, where telephone or in-person briefings average \$9.50. "Killing DUATS would have been a false economy and would have burdened the FAA Flight Service Stations," Boyer concluded.

**Aviation Magnet School Conference in Louisville**

Aviation makes learning exciting, and nationwide there is an increasing demand for aviation education in U.S. schools. As a result, aviation magnet schools are proliferating,



and this year's National Conference on Aviation Magnet Schools—to be held in Louisville, KY, November 18-20—will focus on "Aviation Magnets: Preparing the Best for Tomorrow."

The conference—co-sponsored by the Jefferson County (KY) Public Schools and the Federal Aviation Administration (FAA)—is the third annual National Conference on Aviation Magnet Schools. Embry-Riddle's own Dr. Steven Sliwa will be a participant in this conference along with a number of other distinguished educators.

## Fiber optics to replace wires

NASA press release

NASA started flight tests of a fiber optic control system that could result in lighter, more fuel-efficient airplanes with more capable control and monitoring systems.

The tests using the F/A-18 Systems Research Aircraft at NASA's Ames-Dryden Flight Research Facility, Edwards, Calif., are developing fiber optic systems—small bundles of light-transmitting cables—that weigh less and take up less space than the copper wiring in today's aircraft.

Fiber optics also have better immunity from strong radio signals and lightning, are free from short circuit arcing and can carry more electronic signals.

"Replacing copper wire with fiber optics where appropriate offers an unsurpassed ability to transmit

commands and data between parts of an airplane," said Darlene Mosser Kerner, chief engineer and principal investigator for the Systems Research Aircraft. Weight and fuel savings in transport-type aircraft engineered with fiber optic control systems could be substantial compared to designs with traditional copper wiring. Signals also would travel more quickly between locations in an aircraft equipped with fiber optic controls.

NASA uses the System Research Aircraft to identify and flight-test the newest and most advanced system technologies that can benefit both civil and military aircraft. The tests are part of NASA's Fly-By-Light/Power-By-Wire program that is developing lightweight, highly reliable, electro-magnetically immune control and management systems for future civil transport aircraft. Dryden and NASA's Lewis Research Center, Cleveland, have been working with the U.S. Navy since 1985 on fiber optic control system integration.

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### Critic's Corner: Words can't describe the pain that I felt

**Fatal Instinct**  
Starring: Armand Assante  
Sean Young  
Rated: PG-13  
Rating: ★  
Length: 1:30 (Too long)  
Playing: UA 4-9

**By Keith Towers**  
Movie Critic

It figures, the week after I see one of the best movies of the year, I see one of the worst movies of the year. Last week, *The Nightmare Before Christmas* was a pleasant trip into fantasy, while this week the movie *Fatal Instinct* provided a nightmarish trip into hell. Hate is too weak of a word to describe how this movie made me feel.

I would like to just say that *Fatal Instinct* sucked, and that it sucked really bad. My editor needs some length to my review to fill space, so bare with me.

Well, it's going to be tough to talk about a comedy in which I laughed just 2 times. Even the previews looked sad, but you can never tell. This time the previews didn't lie. I hated this movie.

Somehow, people knew it was going to be really bad, because the theater was only a quarter filled on

a premiere night. I hated this movie.

Next week this movie will probably be at the dollar theater, but if I were you I would not waste that hard earned bill.

This spoof of *Fatal Attraction*, *Basic Instinct*, *Sleeping with the Enemy* and countless other thrillers was trying to accomplish what the Zucker Brothers did so successfully with *Airplane* and the *Naked Gun* classics.

The movie starred Armand Assante, Sherilyn Fenn, Kate Nelligan and Sean Young. Assante played a cop and a defense attorney all in one. He would arrest criminals and then defend them in court and get them off. "What a great premise," the critic wrote sarcastically.

Young played the femme fatale who went after Assante. She wasn't as bad as the rest of the cast, which seemed indifferent throughout the movie.

Director Carl Reiner might have envisioned a hilarious comedy, but what came out in the end is not worth writing about, but like I said, my editor needs space filled.

For a comedy, I didn't have one good sore-stomach, tear-wrenching laugh in the whole movie. *Fatal Instinct* has an instinct on how to fatally wound its audience in record time.

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

## Björk climbs the charts with *Debut*

**By Scott Augustus**  
Staff Reporter

In a previous issue of the *Avion*, movie critic Keith Towers explained how he chooses the movie he reviews each week. He picks the one that he thinks most students at Embury-Riddle would be interested in seeing.

This has merit, but I'm much too selfish for that. When I have a choice of what album to review, I disregard any interest that any readers might have (who needs readers anyway?), and I review what I think I would like.

Björk's new album, entitled *Debut*, is no exception. I heard "Human Behaviour" on the radio just like everyone else, but I probably liked it more than most people. So, when given the chance to listen to Björk's new album, I didn't pass.

If you're into the alternative scene, you know that Björk has been the lead singer for a band called the Sugar Cubes for years. If I counted right, Björk and the Sugar Cubes had released three fairly successful albums together.

If you couldn't guess by the title of the album, *Debut* is Björk's appropriately named first solo project. She should be just as successful going solo as she was during her stint with the Sugar Cubes.

The first release of the album, "Human Behaviour," is very typical of the music on the rest of the album, with a couple minor exceptions.

So what does Björk sound like? She has an amazing talent for making her voice do really strange things. Sometimes it sounds as if she's in pain (perhaps being attacked by the bear in the "Human

Behaviour" video), but she makes it work. *Debut*, overall, is pretty mellow.

I enjoy listening to it, and it doesn't hurt that she's pretty cute, too (other people disagree with that, but this is my review, so leave me alone).

Songs that caught my attention on the first run through were "Big Time Sensuality" and "One Day." Also, "Acroplane" and "Violently Happy" get honorable mentions. "Violently Happy" had to be mentioned just because of the name.

The couple minor exceptions noted above are "Like Someone in Love" and "The Anchor Song." I consider a song to be pretty weak if I could have written the music to it (and those out there that know the extent of my musical talent would agree).

These songs fit that description. "Like Someone in Love" sounds like xylophone music to me. But it doesn't last long, and it provides a change of pace on the album if you like that sort of thing.

So, now there remains only one obvious question - What kind of name is Björk? Why doesn't she go by her full name, like Mariah Carey or Janet Jackson? Well, if your last name was Gudmundsdottir, you'd probably go by your first name too.

Most Americans can't even pronounce "Björk" right. I wouldn't want to hear attempts at her last name (my best guess - try saying "good man's daughter" with your mouth full of Cheerios).

If you're wondering, she does sing in English. But she can play with her voice sometimes so that she is hard to understand.

The good folks at the Elektra record label were good enough to



Björk visually appealing face and extraordinary voice would make the average listener a very happy camper.

include the lyrics in with the album. *Debut* has eleven tracks, all written by Björk herself or by Björk and Nellie Hooper.

Different artists play the music in the background, so it's difficult to say who might go with Björk if she ever decided to tour, and rumors of a tour are afoot.

One of the tracks, called "There's More To Life Than This," was recorded live at some place called the Milk Bar toilets.

If you listen to *Debut* and like what you hear, any of the Sugar Cubes's albums is recommended.

Also, check out the side project Björk did with 808 State two years ago.

Björk provided 808 State with lead vocals on songs called Qmari and Ooops.

Björk has been around quite a bit for a singer in her 20's.

Björk's *Debut* is definitely worth a listen.

## The Lemonheads' *Feel* is bittersweet

**By Korwin McKenzie**  
Copy Editor

This review is quite a challenge. I literally pulled it out of a hat (the Editor's drawer). I figured that this is Embury-Riddle and the only way to learn something is to try it. So here goes.

It was quite difficult to determine what type of music this *Come and Feel The Lemonheads* album by the Lemonheads was. This is the band's third album for Atlantic Records. Their last album, *It's a shame about Ray*, was released last year. The album is very close to becoming gold in the US, so I guess these guys, Evan Dando, David Ryan and Nic Dalton must be very popular.

Ryan, the drummer is from Boston. Some of his stuff are really quite good as you listen to the album. Dalton and Dando are both from Australia. Dalton plays bass guitar.

Some of the songs on the album (there are fifteen in all) were already showcased last Spring at the The Academy in New York. They sang "Style" and "Into Your Arms." The crowd on hand loved both songs.

Dando and Tom Morgan co-wrote all the songs except for "Paid to smile," "I'll do it anyway," "Favorite T," "You can take it with you" and "The Jello Fund" which were all co-written by Dando and Dalton.

The first three songs, "The Great Big No," "Into Your Arms" and "It's about time," sounds

like country music, however my colleagues says otherwise, it's alternative rock. Call it what you will, I actually liked it, well at least a few tracks.

"Into Your Arms" is Juliana Hatfield's contribution to the album. Robyn St. Clare wrote the lyrics especially for Hatfield. This track is about her being able to go someplace whenever she is alone, "into your arms." The lyrics does not say whose arms though, I assume it must be one of the band members.

Belinda Carlisle sings "I'll do it anyway." A songs about her being forced to do something. There is some mention about skating, but the motive here is a bit unclear. The beat is pretty funky though.

"I don't wanna not get stoned, don't wanna get high," I think this means "I'm gonna get stoned," two negatives? Actually the Lemonheads sounds stoned when they were singing this one. This is some of the lyrics from "Style." There is also a slower version of "Style" titled "Rick James Style" with the one and only Rick James singing along. The Lemonheads says that "Rick is cool."

"Being around" is an interesting song, with lyrics like "If I was a booger would you blow your nose," this song is very funny. The group is talking about being around and just feeling a little grubby about it, great lyrics.

"Big Gay Heart" is a song about preventing gay bashing, the tempo of the song suggests that the Lemonheads feel strongly about this topic. This song is the sixth on side one and believe me

it wakes you up. The lyrics are so crazy, and cannot be printed here, get the album!

The songs on this album are not dance tracks, at least not for me anyway. You can listen to them, and they sound really good (some of them), but it will take a little more exposure to this type of music to appreciate it fully.

The kind of music that I really listen to is reggae, rap, rhythm and blues, but as I said this was an experiment in education at an educational institution, and it was great.

*Come and Feel The Lemonheads* is rounded off by "The Jello Fund," a musical interlude, which sounds like rain splashing in a tub, very soothing, and quite a clever finale to what was a very interesting experience.

For a quick history lesson, The Lemonheads first album was *Lovey*. This was released in 1990 and made it to the top ten on the US alternative chart. I must have been the only one who had never heard of these guys before last week.

*Come and Feel The Lemonheads*, was produced by Dando and Robb Brothers, they both also produced the *It's a shame about Ray* album. Judging from the sales of *Ray*, *Feel* should follow without any problems at all.

Every now and then I take a step on the wild side and this time around, it was great, as it always is. Welcome to my collection Lemonheads.

As the title suggests, come on, feel the Lemonheads, you'll be glad you did!



The Lemonheads gives a lift to alternative rock with their new album *Come and Feel The Lemonheads*.

## No Alternative is soon to be a hit

**By Steve Mendrzychowski**  
Staff Reporter

Save up your cash because in the near future, *No Alternative* will be hitting the record stores.

This album is the latest in a series of compilations produced by the Red Hot Organization in association with the AIDS Music Project, to raise money for AIDS research and awareness.

Like the last album, *Red Hot + Dance*, which centered around dance mixes by the popular artists of the time, *No Alternative* also centers around a particular music category.

The album is full of outstanding new songs by many of today's fresh, new, "alternative" rock bands.

Matthew Sweet starts everything off with his guitar heavy "Superdeformed." This song features classic "Matthew Sweet" guitar work, reminiscent of his earlier works like "Girlfriend" and "Evangeline," but only with a harder edge and voice synthesizers among other special touches.

Next comes one of the more recently discovered bands out of Boston, Buffalo Tom, with "For All to See." What gives this song its flair are the combination of great vocal harmonies, and its poppy, upbeat rhythm due to the use of tambourines.

Soul Asylum appears next with a beautiful cover version of Marvin Gaye's classic, "Sexual Healing," giving it a more guitar based sound. Rather than butcher the song, which is something that occurs frequently when bands try to cover songs

that are of a different style of their own, Soul Asylum does it justice, not losing any of the vibe of the original in their version.

Other covers on the album include sensational versions of the Rolling Stones "Bitch" by the Goo Goo Dolls, and John Fogerty's "Effigy" by Uncle Tupelo.

Urge Overkill also appears with one of the best songs on the album, "Take a Walk," a beautiful, inspirational piece about love and finding oneself.

The intense emotion and feeling contained in the voice of the lead singer, Nash Kato, and the cello in the rhythm section are what give this song its unique sound. After hearing this song, I quickly changed my view on this band from being a "one-hit-wonder," to a being a very talented group that will be heard from a lot in the future.

Another song that rises above the rest is "Glynis" by Smashing Pumpkins. In a delicate soft-spoken voice, complimented by a slow powerful bass, and creative, ever-changing guitar rhythms, the band's vocalist, Billy Corgan, sings about losing a dear friend.

This is one of the few songs on the album that have direct connections to the AIDS virus. Anyone who has lost a loved one to this dreadful disease can easily relate to the song's story.

Other bands worth mentioning that appear on the album include Soundgarden with their first release since the Badmotorfinger's hits, "Show Me," on which vocalist Chris Cornell trades in his usually throaty, screams for a more composed, bluesy styled voice, backed by the band's trademark guitar work.

Bob Mould, formerly the lead singer of Husker Du, and now of Sugar, does a folksy, acoustic solo project for the album, called "Can't Fight It." Pavement fills their "Unseen Power of the Picket Fence" with a sound reminiscent of the band Fugazi.

The Beastie Boys appear with a live version of their "In the New Style." The Breeders play a powerful live version of "Iris." There seems to be no end to the list of great songs.

Then there is the song on the album that is clearly the best. After a sentimental tribute by Paul Smith to the artist Robert Mapplethorpe, a close friend of hers that died of the AIDS virus, there is a "mystery track" that is unlisted anywhere on the whole compilation.

Everything about this song is phenomenal. It has a creative rhythm, emotionally heavy vocals, and a ferocious bite.

I'm hesitant to give the name of the band though. I want you to discover it for yourself like I had to. I'll give you a little hint though; think Seattle.

Everything about this album is great. Not only are all the songs outstanding, but the proceeds go towards a great cause my only disappointment with it is the way it was packaged. A song by a band I really admire, Sonic Youth, only appears on the cassette version, not the compact disc. Other than that, I highly suggest you go out and buy this album as soon as it is released.

"No Alternative is an album that gets back to the reason that music is released in the first place. To make a difference," says the Red Hot Organization.

## Jacksonville Symphony Orchestra rocks the house at the Peabody

**By Chris Farkas**  
Staff Reporter

Jacksonville, FL, is the city that has been trying to get an NFL team since before the Colts moved to Indianapolis. Jacksonville is also the city who when finally offered an NFL team this year, in essence said "no thank you." As if this isn't enough, Jacksonville is also the town that I have had the misfortune to live in for the past several years.

With this in mind, it was with great trepidation that I went to see the Jacksonville Symphony Orchestra (JSO) on Saturday at The Peabody Auditorium.

From the outset, it appeared as if I was to be correct. Roger Nierenberg, conductor of the JSO, had decided on two pieces to be performed. The Symphony Number Nine by Ludwig van Beethoven was to be performed following the intermission. There was, however, only one piece scheduled before the intermission, a fifteen minute performance of Antonin Dvorak. There was no symmetry in the performance; a typical Jacksonville faux pas.

Maestro Nierenberg entered the stage, looking as always like a British actor with his coat tails swaying to his spirited step. The main problem with the performance was not one of the JSO's, but of acoustics. Throughout the first piece, the brass and percussion sections overwhelmed the soft melodious strings. Despite this, the animated conducting of Nierenberg returned a spectacular performance. Nierenberg has the almost magical ability to bring out the best in an orchestra. He stands there conducting one part of the orches-

tra, and when something is needed of say the violins, he points to them with the power of Merlin, and the result is nothing short of magnificent.

The entire purpose of the evening was indeed the performance of Beethoven's Ninth Symphony, arguably the finest piece ever composed by a romantic artist. For those of you unfamiliar with the piece, watch *A Clockwork Orange*.

The first and third movements were magnificent, smooth and flowing. They brought a tear of joy to the hardest of hearts in the audience. The only movement that was anything short of perfect was the second movement. The second movement of Beethoven's Ninth is to be "attacked." It is one of the most powerful pieces of music this side of Wagner, and the JSO didn't do this. Whereas it was good, it continued the flowing of the rest of the piece rather than "jumping off the stage" like it should have. The fourth movement, or chorale, brought the piece to its summation with a flourish. The performance of bass soloist, Terry Cook, was awe inspiring. The Jacksonville University Chamber Singers turned in a wonderful exhibition. The only detraction from the chorale was the lackluster "diva-ish" performance of Karen Erickson. Whereas Miss Erickson has a great voice, she should learn that her role as soloist is not to overpower the entire orchestra.

This performance was the first of several in this year's symphony season. The symphony society has decided to allow student's to enjoy all the symphony performances for \$5.00 per show inclusive of all service charges. The next performance is November 12, by the Warsaw Philharmonic Orchestra.

Software Reviews:

# Lands of Lore is Westwood's challenge to Eye of the Beholder III

By Ronald Hess  
Data Technology Editor

A long time ago, the Ancients created the Lands. During that time all races lived in harmony. Some time later, but still long ago, the War of the Heretics "precipitated" the fall of the Ancients.

Dark times fell across the Lands and the races degenerated to their primitive origins. Wars broke out among the races. Surprisingly, these wars were a good thing. They organized the races, getting them to communicate and trade.

Following the Racial Wars, a Dark Army appeared to ravage the Lands. The Dark Army came from the Mouth of Ruin. The Mouth of Ruin is a series of cursed mines. The mines lie in the region of Urbish. Lore has it that an ancient temple lies within Urbish. The origins of the temple date back to the Ancients.

A "Nether Mask" lay within the temple. This mask had magical powers which protected the region. Scotia, a black witch, stole the mask, and darkness fell across the Lands. A champion must come forth to stop the evil Scotia. Thus begins the first adventure in the *Lands of Lore* series: The Throne of Chaos.

If you have not guessed already, you must assume the role of champion. As champion, you will be assigned tasks to complete. Your duties will take you across the Lands and

under them. Your goal is to discover and defeat the evils that threaten the Lands.

The *Lands of Lore* series is a "point-of-view" or first person perspective fantasy roleplaying game. Following a cinematic introduction, including animation and digitized speech, players select one of four champions they will represent. From here the adventure begins.

Players maneuver through the Lands via keyboard input or movement buttons. A 3-D display represents real-time movement and actions within the game. The window is fully animated to reflect character interaction. Gamers are confronted with animated friends and foes.

The view screen is also fully interactive. Players must search objects and open doors. Actions are accomplished by using a pointing device to click on portions of the screen. Clicking may provide important clues, items, or access to new areas. Any new found items may be clicked and dragged onto the inventory bar.

Icons are used on the rest of the screen to represent other options. Maps are obtained by clicking on the atlas icon. An animated compass shows the current direction the champion is facing. Funds are graphically represented by stacks of coins.

Other icons include the old disk icon, which is used to open the options screen. The sleep icon is available to restore health and spell points. Objects currently within the champion's inventory are displayed in a

scrolling inventory bar across the bottom of the screen.

Character representation is provided by portraits. The portraits display the general health of the champion and any other characters that have joined the party. Selecting the portrait changes the display into the character screen, where objects may be equipped and the current skill levels may be observed.

Beside the portraits are the health and spell point meters. These meters represent the vitality and spell casting ability remaining for the characters. Alongside the meters are the action buttons. These buttons represent the combat and spell casting functions. The pictures on the action icons change to reflect the weapons and spells readied.

The graphics and sounds are the high points for this game. The excellent animation and speech hold the interest of the players. As always, a faster machine will increase the speed of the animation. I did not notice much hindrance on playability when testing this game on a 386.

Unlike some games, quick reflexes are not needed. Different settings are available to "improve" speed. Of course, improving speed and performance means decreasing the detail.

One interesting option allows the scrolling when moving to be turned off. With the scrolling on, as the player moves, the view screen is scrolled to the next location. Turning the scrolling off provides a



Photo by Ed Tanaka

*Lands of Lore* is a "point-of-view" fantasy roleplaying game, with an excellent combination of graphics, sound and animation. An interesting storyline and challenging quests make *Lands* a great game.

very choppy movement, but increases the speed of the game.

It should also be noted that people without a sound card cannot hear speech or sound through the PC speaker. The quality is low, but something is better than nothing. Music is not available without a sound card.

The *Lands of Lore* series originated when

SSI chose not to have Westwood design *Eye of the Beholder 3*. *Lands of Lore* is definitely one of the best games in its genre. The graphics, sound and plot make this an excellent roleplaying adventure. The interesting storyline and difficult puzzles help to maintain interest. I wonder what is next from Westwood.

# Lucasfilm releases the fifth Tour of Duty for the X-wing simulator

By Ronald Hess  
Data Technology Editor

The people at Lucasfilm have released a second Tour of Duty for the *X-wing* spaceflight simulator. The new *B-wing* expansion disk contains the fifth campaign for the *Star Wars* game.

The new program contains a new Alliance starfighter design. The *B-wing* is a heavy assault fighter. The craft has the agility of an *X-wing* and more fire-power and better handling than a *Y-wing*.

The *B-wing* was created to destroy Corellian Corvettes and Nebulon-B frigates. Three laser and ion cannons are provided to do the job. Twelve proton torpedoes are added to supplement the firepower.

Six new historical missions have also been provided to help pilots familiarize themselves with the controls. The screen layout is similar to all of the other spacecraft. The flight controls have not changed.

The only thing that might be confusing is the location of the cannon energy levels. The laser and ion can-

non energy levels are stacked side-by-side rather than above and below each other.

As mentioned, *B-wing* comes with the fifth Tour of Duty. The fourth Tour of Duty was released as Imperial Pursuit. The fifth tour follows the destruction of the rebel main base on Yavin. The rebels are trying to avoid the Empire and find a new home.

The tour begins with a defense of the first *B-wings*, which are being prepared for combat. As with the other Tours of Duty, you must be

proficient with all of the fighters in the Alliance's fleet. If you are talented enough to complete the tour, you will be awarded new tour ribbons.

To help build your proficiency, the expansion disk modifies the pilot proving grounds so that you may practice flying the *B-wing* through the maze. A new patch is awarded to those that can complete eight levels.

Six new *B-wing* historical missions have also been provided. The historical missions allow pilots to familiarize themselves with the

spacecraft in combat. Also remember, the historical missions are similar to the combat assignments found in the tours. Hints for the new missions have been provided.

The *B-wing* disk also provides pilots with a new "TOP ACE." The TOP ACE has two functions. By registering as the TOP ACE, pilots can view the Tour of Duty cutscenes.

Also, as the TOP ACE, pilots can play any Tour of Duty mission. This is accomplished by registering as the ace and entering the historical

missions. From there, all Tour of Duty missions are available.

Another new feature is a medals case, to neatly display any new ribbons awarded in combat. The screen initially displays the uniform, with all of the pilot's fruit salad. An options button will display a velvet lined box with the newly awarded ribbons.

*B-wing* is a great addition for *X-wing*. Note that the first expansion disk, Imperial Pursuit, is not needed to play this game, but *X-wing* is required.

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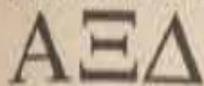
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# Aerospace Society ΛΧΑ

By Matt De Vitto  
*Historian*

At this week's meeting we're having elections for officers for next semester. Everyone should show up to cast your vote. The nominees will be giving a short speech. The trip to Kennedy Space Center is still postponed because Steph is trying to get



By Shelley Harper  
*Public Relations*

Hey Alpha Xi Sisters, hope everyone is having a great week. In regards to Greek Week - Great job Sandra Dee on keeping clean and coming in second. As for the highly skilled basketball team we know you were just having an off night, but I think we can all agree that the volleyball team made up for it. The pyramid was a tumbling success and as for the keg toss maybe Peach and Anna should give Sigma Pi a lesson or two! Thanks to all the sisters and new members who participated, you all did a great job! A special thanks to all the sisters who cheered us on, including, Crip, Tostada and Kelly. Congrats goes out to Sandra Dee and Trail Blazer for being accepted into Omicron Delta Kappa - good job girls.

A big round of applause goes to Ms. Risk herself for finally bringing Rocky and Chiqueta back together. No one would have ever guessed



By Dominick J. Dunnigan  
*Historian*

Greek Week is finally over. Congratulations on a job well done. We definitely dominated the keg toss with Cameron's 31'4" throw. Fahl had the second greatest distance with 29'9". Jess pulled through again this year as chariot jockey. Not to mention all the other events we placed in. Our Halloween party Friday night

us a VIP tour.

In other news the Italian fest went well. Thanks to everyone who showed up to help. Another thanks to Dr. Fleck for astronomy night last week. Other events in November will be the trip to the planetarium on the 10th and possibly another speaker on another date.

See you at the meeting tonight at 7 PM in room E-611.

that a cake would do the job. Meanwhile Trail Blazer is quickly finding out that there are "bigger and better" prospects that are waiting to blaze her trail.

We want to thank Delta Chi for showing us a great time at the wine and cheese, and also for the opportunity to hear all of your great singing voices. We made history that night in front of the dorms and we are glad that all the new members were there to be a part of it.

Remember girls it is time to get your bets in on Rocky - guess the number she is going to add to her list of knockouts. Also keep pulling for Crip - even though I don't see anything else that could possibly go wrong this semester. New members you are all doing an excellent job so far. Keep up the good work and watch out for those sandtraps.

On an ending note: Hard times can sometimes bring us down but keep working hard because if we continue to stick together in the end it will all pay off! SO LONG, FAREWELL....

at the VFW was a blast. There was a lot of conscious effort on creativity of costumes.

Beta Omicron Pledge Class thanks all the Brothers and pledges that donated blood last week. Alpha Eta Rho donated the most blood in the drive helping the Red Cross meet their stringent quota for the week. If you didn't get a chance to donate and you are still interested, you can go to the Red Cross Donating Center on White Street anytime. It's never too late!

By Matt Macri  
*Co-Historian*

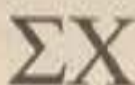
Friends and Brothers of Sigma Phi Zeta,

If one were to live a life of low standards, poor values, and no morals, that person would have only a negative effect on all that they meet. Whereas one that not only sets, but lives by a code of conduct that is higher than that set by society, will only have a positive effect on all that they meet. Any effect that a person has upon another will be transferred

like a virus to whom ever that person has contact with. As this effect continues to grow it will spread beyond the reach of its original source. By this, one should realize that the actions of the few, if from a credible source, can affect the lives of many. Maybe, as brothers of Lambda Chi, we can't change the world, but if we look at the achievement of Warren Albert Cole there is no reason that we can't reach a great many people. We should set this campus afire and take our rightful places as scholastic leaders and moralistic exemplars.

### 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 copy.
- ➔ For more information stop by or call the Avion office at (904) 226-6049.



By James DeForest  
*Chapter Editor*

Hello brothers! The end of the semester is rapidly approaching. With only a month left there are still many activities and challenges that await us. This month is going to fly by, so lets make it the best and get the most out of it.

Congratulations Beta Gamma pledge class, you are now on that first step on the ladder to reaching a much higher goal that waits for you at the top. Your journey has still only just begun. Keep on those hour interviews, don't let them slide.

The brother of the week this week is Barret Frain 2. Sigma Chi, the Eta Iota Chapter would like to thank Barret for the excellent graffiti party

he set up with the Theta Phi Alpha's. The party was a lot of fun and a great time. The All Greek Halloween Party was also a tremendous success. Sigma Chi was proud to host this event and hopes that future all greek events turn out to be as successful as this one. Speaking of Mr. Frain and social events, Barret is still looking for a few extra dollars to help out with his boat trip (White Rose) he has planned. So if you have some extra pocket change (\$50.00) please let Barret know as soon as possible.

Finally I would like to give a big thanks to brother Joe Marriott for his generous donation to completely renovate the Sigma Chi house and for the purchase of the 40 foot Scarab yacht "Sigma Chi II" to be used by himself and the fraternity.

# Riddle Riders

By Matt De Vitto  
*Historian*

Biketoberfest and the races at Daytona may be over but we still have tons of stuff planned for the remainder of this semester. The trip to Key West during Thanksgiving break is taking shape as well as a ride out to the hills (yes, there are hills in Florida) of Apopka. Last week's "road warrior" ride, led by Mike Lubanski, either went well or didn't happen at all depending on the weather. Due to the fact that we have to have these articles in one week before the printing date, we never know just what is going on. Also, it has rained the past 3 weekends so we may have just gone out to breakfast last week and skipped the ride altogether.

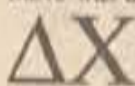
The races the weekend before last were intense and well worth the fifteen bucks which got you into the paddock and infield for all three days. As you probably know, two club members, Doug Byers and Steve Buery (that's Buery, with a Y) raced against the hundreds of other riders from all over the world. Doug and Steve battled against the other riders as well as changing track conditions due to the on and off rain. Steve was doing great in the 3-hour

endurance race on Sunday until about 2 hours, 58 minutes into it when he, um...well...ran out of gas! He still finished a strong 21st though, and his best finish was an impressive 17th out of 80 riders in the Heavyweight Superbike race. Congrats to Doug and Steve for a job well done.

The nominations for club officers for next semester were made at the last meeting and are as follows: President - Rob Sternisa; Vice President - John Rothen and Jason Shank; Secretary - Jason Shank and Craig Winter; Treasurer - Rich Clarke, Roy Perkins, and Jason Shank.

Officer elections will be held at tomorrow night's meeting at 7 p.m. in room E-601. Also, tonight (Wednesday), stop by and visit our booth at the Men's Health & Fitness Night in the Spruance Hall Atrium from 6-9 p.m. for safety (racing) videos.

If you want to be part of the fun or just love to ride, it's not too late. Be at the meeting tomorrow night, meet us at the Front Row Sports Bar on Friday nights at 8 p.m., or just show up at the triangle lot 10 a.m. Sunday mornings for a ride. For more info on the club or upcoming rides call Rob at 258-3399 or John at 788-7590.



By Bill Tallman  
*Club Director*

Well, here it is, Wednesday again, so, on with the show. Let me open by welcoming our National Leadership Consultant, Keith Fields. Welcome to Daytona Beach, Brother. Here's to a productive and entertaining stay.

Last week's mixer with the Alpha Xi Deltas was a tremendous success. Special thanks to the Social committees. All the planning and preparation definitely paid off.

Let's not forget that next week is the Delta Chi Formal '93... Get your release forms in to Turner, and get on your dancing shoes. (Mae West also recommended)

In other news, there have been

unconfirmed reports of sightings of Badger holes in DeLand, and there is a mysterious dirt ring around the edge of the pond. The new table was temporarily marred by an errant moth who seemed to think that MOA stood for Moth Operating Area. AZ Flipper still is uncertain what color Hawg's jeep is, and the Camel Cash Crew has gone smokeless. (Take a picture, it'll last longer). It looks like Flintstone's graduation party (if he actually makes it), will be catered by the Crook's Den.

Well, that's about all the news that's printed to fit for this week, so I'm out. Final Thought:

"In the Japanese language the word crisis is comprised of two symbols; one signifies danger, and the other opportunity." - JFK.

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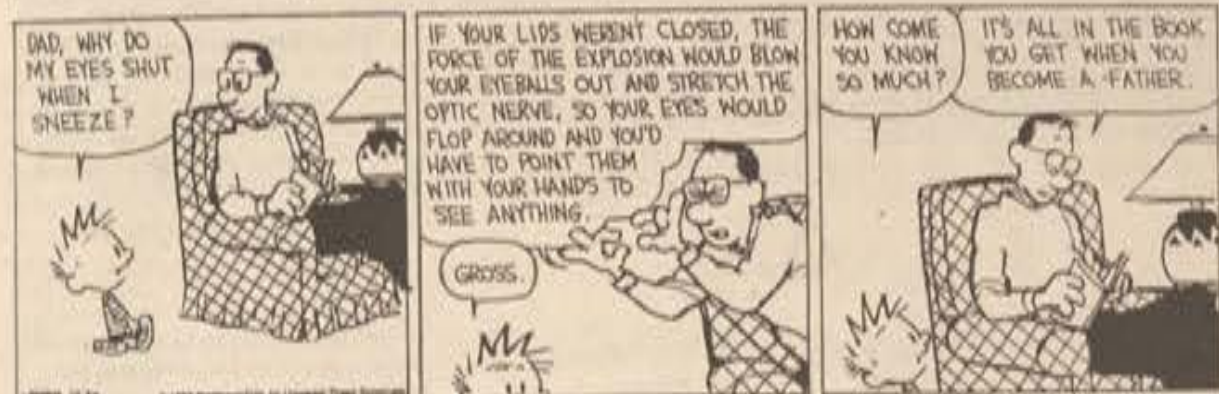
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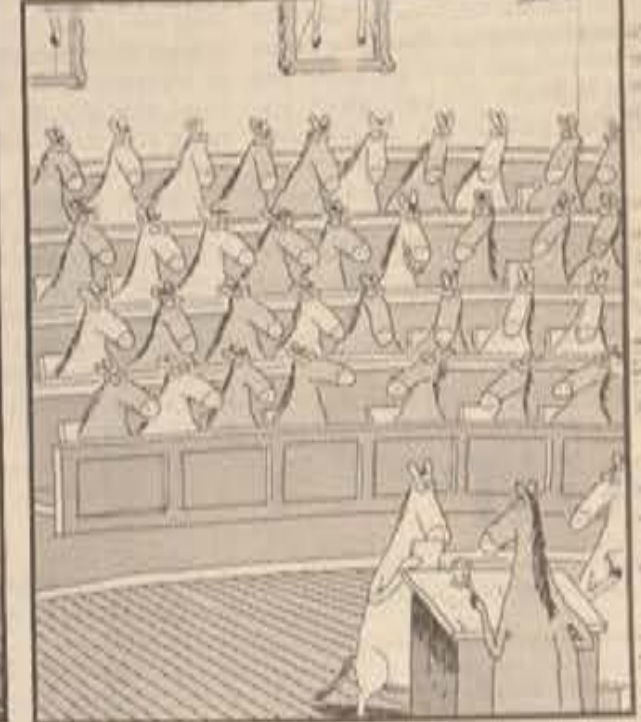
"Well, I've got good gnus and I've got bad gnus."



Scotty in hell



Headhunter hutwarming



The entire parliament fell dead silent. For the first time since anyone could remember, one of the members voted "aye."



Fortunately, even the Boy Scouts who fall knot-tying get to go camping.

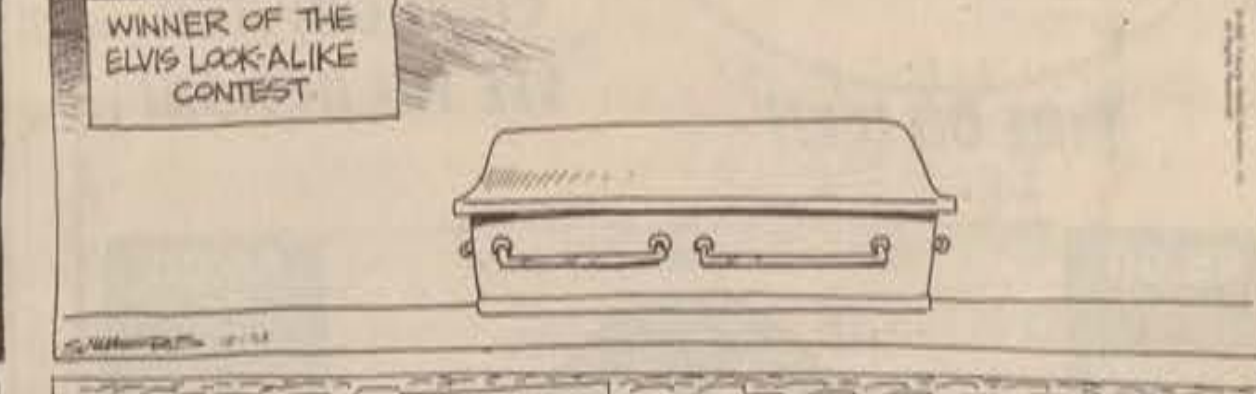
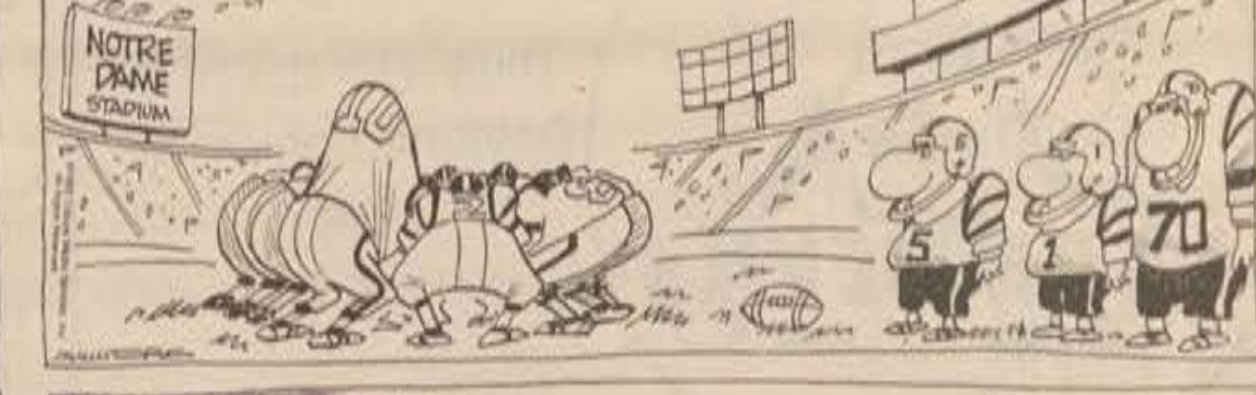


Summoned by the gonging, Professor Crutchefeld stepped into the clearing. The little caterpillars had done well this time in their offering.

**Dave** by David Miller



**Bound and Gagged** by Dana Summers



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1990 VOLVO stationwagon 245DL, one owner. Very good condition, extras. \$2300. Call 226-6880 work, 760-1270 nights/week.

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## Miscellaneous

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Lost 5 inch Maglite flashlight in UC. Please return to ERAU box #5519.

## Personals

This is to the gorgeous woman with the great legs and beautiful smile who drives that 67 maroon Mustang (plate TANYA R). I'd like to talk to you sometime. I don't care if you have a boyfriend.

WE ARE BACK Every day from 9 a.m. till 6 p.m. Tune us in on 710 am. Campus Radio WERU

LAURIE, DABE! Break a leg, kid! You'll do great! Just take a deep breath, and dive into your character! "The force will go with you!" Love ya lots, YOUR BIG SIS

Yield to temptation. It may not pass your way again. THE BATHROOM PHILOSOPHER

I love you Amy. From, UNFOCUSED

PAPI, E! Ya se cumplio un mes de haber descubierto la felicidad que nunca habiamos encontrado y quiero por este medio decirlo lo mucho que TE AMO! TE AMA TU MAMI, A.

JULEE! I was on one of your orientation teams. You probably don't remember me, but I remember YOU! I'll look for you in the SC and we'll talk when I can get you alone. PS-IDCZY-HAB. SECRET ADMIRER

HEY ROO, Did I ever tell you how much I love you? CRAZY

HILLARY JADE, Be good for your mother, and phase out Barney. BIAN(BRIAN)

I love you Jan. From, HOMER

Which is more tender, the left or right leg of a chicken? Answer to last week: Ivory.

I love you Heather. From, REWIND

KELLY, I'd really like to calm your "storm." I met you at orientation and that's when I fell in love. Be in the SC Thurs at noon.

GREGORY R, I see your mighty muscles every morning as you walk from your car to the Avion office. Please be mine. LOVE, BILLY

FOR SALE. One good looking blonde girlfriend with a great body. Pay my rent this month, and she's yours for as long as you want.

Duet tape is like the force. It has a light side, a dark side, and it holds the universe together. CARL ZWANZIG

TO LENS CAP I love you, let's take some more risky photos. LOVE, MARTHA

MY SWEETEST JENNIFER, You are my complete emotional reality. Nothing else is more real than us. You are my home forever. BRIAN JAMES

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 Thurs-Sunday 11-5

On behalf of the intramurals and Recreational Sports department I would like to thank the Sigma Chi Pledge class Beta Gamma for their outstanding efforts and accomplishments in cleaning and upgrading the outdoor court area on campus. This area includes the new basketball, floor hockey and tennis courts. The Department of IRS greatly appreciates a job well done. It has enhanced the quality of the area significantly. Again, thank you for your contributions.  
 J.B. Caldwell

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ANITA, Your blue eyes really dull my skin. I hope to see you soon. Who owns the ugly blue car I saw you get into? Reply here next week.

JILL, You are the nicest, sweetest and prettiest woman I've met since I've been here. I was wondering if we could get together sometime. Look for me, I drive a Honda Accord too.

TARA, Whenever you cheer, just remember, I'm in the stands pulling for YOU! A FALLING OBSERVER.

TO ELLEN, Thanks for being so nice to me. How do I love thee? Let me count the ways: 1, 2, 3... DR. J. N.

I love you Alex. From, LENS CAP

"Physics is like sex: one, it may give some practical results, but that's not why we do it." R. FEYNMAN

"Do you think we are fools? We will land on the sun AT NIGHT!"

**EAGLES BASKETBALL HOME OPENER**  
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 THIS SATURDAY NIGHT, SEE YOUR ERAU EAGLES TAKE ON MONTREAT'-ANDERSON COLLEGE AT 7:30 P.M.  
**LET'S ROCK THE HOUSE!**  
**WE'VE NEVER HAD A SELL-OUT.**  
 LET'S CHANGE THAT THIS SATURDAY BY PACKING THE GYM!  
**SUPPORT YOUR EAGLES TO VICTORY!!!**  
 THE GAME WILL BE AT SILVER SANDS MIDDLE SCHOOL, GO SOUTH ON CLYDE-MORRIS TO HERBERT. TAKE A LEFT ON HERBERT. 1/2 MILE IN IS SILVER SANDS ON YOUR RIGHT.

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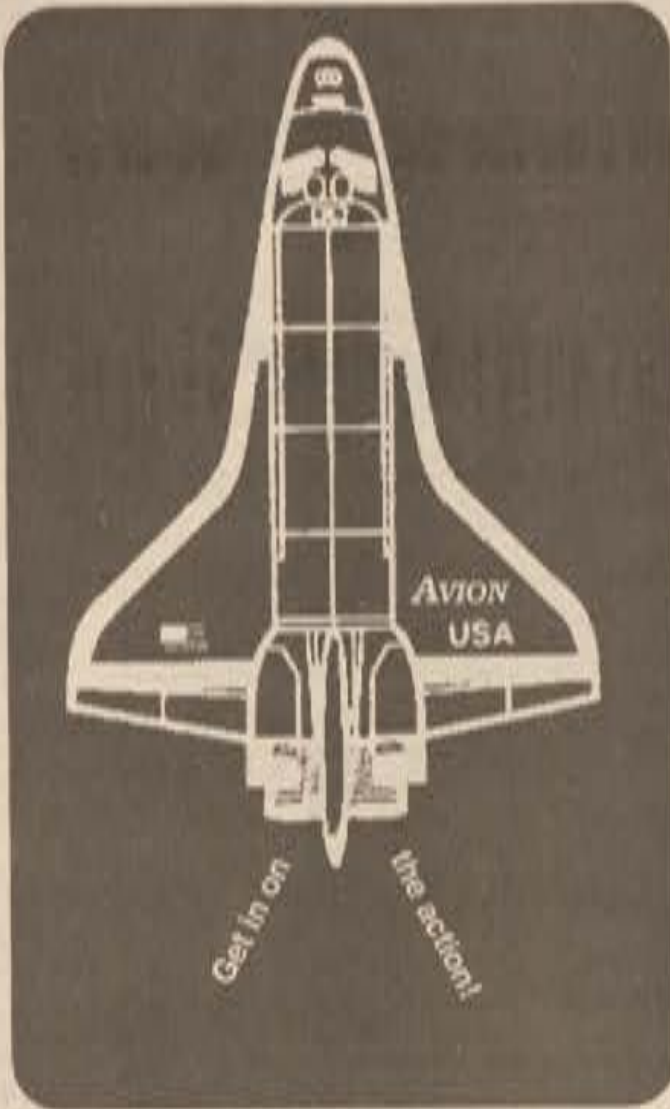
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