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# SPACE TECHNOLOGY

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## Columbia returns to Kennedy Space Center safely

### Space shuttle performs flawlessly during 10 day international science flight



The Space Shuttle *Columbia* returned to the Kennedy Space Center (KSC) on Sunday morning at 9:05 a.m. This was the second KSC landing for *Columbia*.

By Brian Gamage

Space Technology Reporter

A pair of sonic booms, like two loud gunshots, hailed the picture perfect arrival of the space shuttle *Columbia* at the Kennedy Space Center's (KSC) Shuttle Landing Facility on Sunday, November 1. *Columbia* landed at 9:05 a.m. on runway 33 marking the end of a successful nine day, 20 hour, and 56 minute mission.

While in orbit the STS-52 crew conducted many experiments flawlessly, including the Canadian-run CANEX-2 program. However, the mission was not without some small, non-critical glitches.

The most important of these came about 30 minutes before touchdown when a surface position indicator failed to operate correctly. This instrument is a cockpit display indicating the position of the many wing and tail surfaces, without which the orbiter might not land correctly. A

digital backup system had to be used instead. The problem occurred after the orbiter began its descent into the Earth's atmosphere, which prevented NASA from aborting the landing attempt.

Nominal drag chute deploy came 14 seconds after main gear touchdown, followed by nose gear touchdown four seconds later. This was the fourth time a shuttle landing was assisted by a drag chute.

*Columbia* traveled a total of 4,129,028 miles after 159 orbits, which was the 51st mission of the shuttle program. The orbiter of NASA's shuttle fleet have now traveled more than 120 million miles in space, which is equivalent to flying from Earth to a little past the Sun.

The crew deployed the LAGEOS II satellite successfully on the second flight day. Additional experiments were performed with the Remote Manipulator System for the Canadian space agency.

John Pike, of the Federation of

Concerned Scientists, questioned NASA's policy of launching LAGEOS on the shuttle when it could have been launched on a Titan for considerably less money and risk to the lives of the six person crew.

STS-52 included many in-flight interviews, which included a spot on MTV news. The crew answered questions about the different science experiments they were conducting and which rock 'n' roll songs they listen to while in orbit.

NASA controllers were initially concerned with crosswinds at KSC which might effect the performance of the drag chute. During the landing of STS-47 last month, the winds pushed the drag chute out of alignment by eight degrees, which pulled *Endeavour* 25 feet off the runway centerline, requiring the pilot to manually correct the potentially critical anomaly.

A post flight inspection showed only minor damage to the thermal heat tiles on *Columbia*.

## NASA continues aviation human factors research

NASA news release

NASA's aviation human factors research seeks out information about human abilities and limitations, then applies that knowledge to aeronautical systems, tool and procedures. The goal: safe, effective and reliable flight.

NASA coordinates its efforts with the Federal Aviation Administration (FAA) under a 10-year National Plan, begun in 1991, which covers the spectrum of aviation human factors issues. NASA identifies what is needed to solve pressing problems and integrates the work of various federal laboratories. The agency also makes academia and the industry aware of research needs and transfers the results of that research to other government agencies and the private sector.

### Improving crew efficiency

On long-haul flights, pilots often lose sleep and suffer "jet lag" from crossing several time zones. Extended duty, unexpected delays and night flights can reduce awareness even on short- and medium-range routes. NASA is conducting the first major study to understand crew fatigue and the impact of changes in the body's internal time clock.

During regularly scheduled flights, study crews wear portable biomedical recorders that collect data on body temperature, heart rates and activity. Observers in the cockpit also monitor the pilots' behavior. In a cooperative program, research organizations and airlines in Germany, the United Kingdom and Japan have taken electroencephalograph (EEG) sleep measure-

ments during crew layovers on worldwide routes.

Recently, NASA expanded the effort to include a test of fatigue-fighting measures during four successive transpacific flights by two groups of Boeing 747 crews. One group took turns napping in their seats for 40 minutes; the other operated under their usual flight rules without a sleep period.

The results show that crews who took a preplanned rest were more alert during critical phases of the flight than those who did not. These fatigue studies are contributing to guidelines for flight regulations and aircraft certification and are aiding human factors researchers to come up with ways to help pilots remain even more alert.

### Automation in the cockpit

In 1990, U.S. commercial airlines carried more than 465 million passengers nearly 458 billion miles and hauled billions of dollars in goods around the world. Automation plays a vital part in moving this amount of air traffic smoothly, but increased reliance on computers often has unique complications.

For example, flight crew do not always fully understand the procedures and functions associated with today's highly-automated cockpits. Some systems even increase pilot workload during takeoff, descent and landing - just when crews must be most acutely aware of what is happening around them.

NASA is responding to the challenges of this "glass cockpit" technology with a research effort called the Aviation Safety/Automation program. The aim is to improve safety in U.S. airspace by supporting the development and integration of

advanced automation ideas for air-crews and air traffic controllers.

The first step in the program was to define the situation. From 1986 to 1989, NASA's Ames Research Center studied automation's impact on 200 pilots who fly the highly-computerized Boeing 757. Investigators found that many pilots were concerned about safety factors caused by the amount of information presented and the tasks involved in using state-of-the-art computerized flight management systems.

Almost half the pilots worried that automation would diminish their flying skills, yet nine out of ten were comfortable with the 757's electronic flight deck, especially its map displays and advanced warning systems.

As useful as it is, research during actual flight operations has a drawback. Investigators cannot manipulate the "experiment" to cover a full range of available systems and flight conditions. Fortunately, NASA human factors experts have a unique research tool available at the Ames Research Center and the Langley Research Center.

Advanced Concepts Flight Simulators at those facilities are yielding insight into commercial aircraft operations in the coming decades. Each simulator is a tested with a variety of control systems and electronic information screens. Pilots participating in studies use a flight computer to process navigation data, select and display the condition of any system in the "aircraft" and interact with warning systems.

### New piloting and air traffic control aids

NASA also is working on new technology to help pilots and air



NASA researchers are studying how human pilots interact with computerized "glass cockpits" like that of the new Learjet 45.

traffic controller do their jobs and is investigating how people interact with such innovative systems.

A prototype computer software package that NASA has created at Langley reduces pilots' workload when they respond to route and altitude changes ordered by ground controllers. The system, called DIVERTER, generates information on alternate airfields and routes based on weather, safety, economy, scheduling and available airport facilities.

In tests, DIVERTER has chosen and ranked possible landing sites in response to severe weather warnings that caused a change from the normal flight path. DIVERTER also has

planned high-altitude routes to alternate airfields, even figuring out the height needed to pass through mountains.

### The Aviation Safety Reporting System

NASA's Aviation Safety Reporting System, created in 1976, is the world's most comprehensive aviation human factors database. Its computer files contain more than 180,000 confidential reports of aviation "incident," near-misses and minor accidents with little or no damage. This vast amount of information makes the system an invaluable resource for air safety researchers in the federal government, the aviation community, uni-

versities and the public.

NASA manages the system for the FAA. The system's experts process and analyze aviation incident reports voluntarily submitted by pilots, air traffic controllers and others, then enter and maintain those reports in the database. The identities of people filing reports are strictly confidential.

The system also identifies safety issues brought up by its reports. The program periodically puts out alerting messages; recent topics have included confusing airport taxiway markings, unexpected encounters with jet thrust during landing and confusion about barometer readings on international flights.

## Goldin announces changes in NASA organization to strengthen programs

By Joshua S. Mussaf

Space Technology Editor

WASHINGTON, D.C. — NASA Administrator Daniel S. Goldin recently announced a series of structural changes at NASA to improve management and bring focus to programs that are essential to America's future.



NASA Administrator Daniel Goldin.

"Of all the agencies in government, NASA has a unique responsibility to invest in the future to ensure there is hope and opportunity, to keep America on the cutting edge of technology," Goldin said.

"If there is universal agreement on one point it's that NASA cannot afford to fail, that it must be the pre-eminent technological leader of the world," Goldin said. "NASA must

**"NASA must reach for the stars and bring back...technology to improve life on Earth."**

reach for the stars and bring back to America dual-use technology to improve life on Earth."

To achieve its goals, Goldin announced the following structural and managerial changes at NASA:

### Space Station Freedom

Strengthening the focus of management of Space Station Freedom is of the highest priority for NASA. In a September 17, 1992 speech, Goldin said he was "taking steps to ensure NASA's top talent is working on this program."

### Science & technology

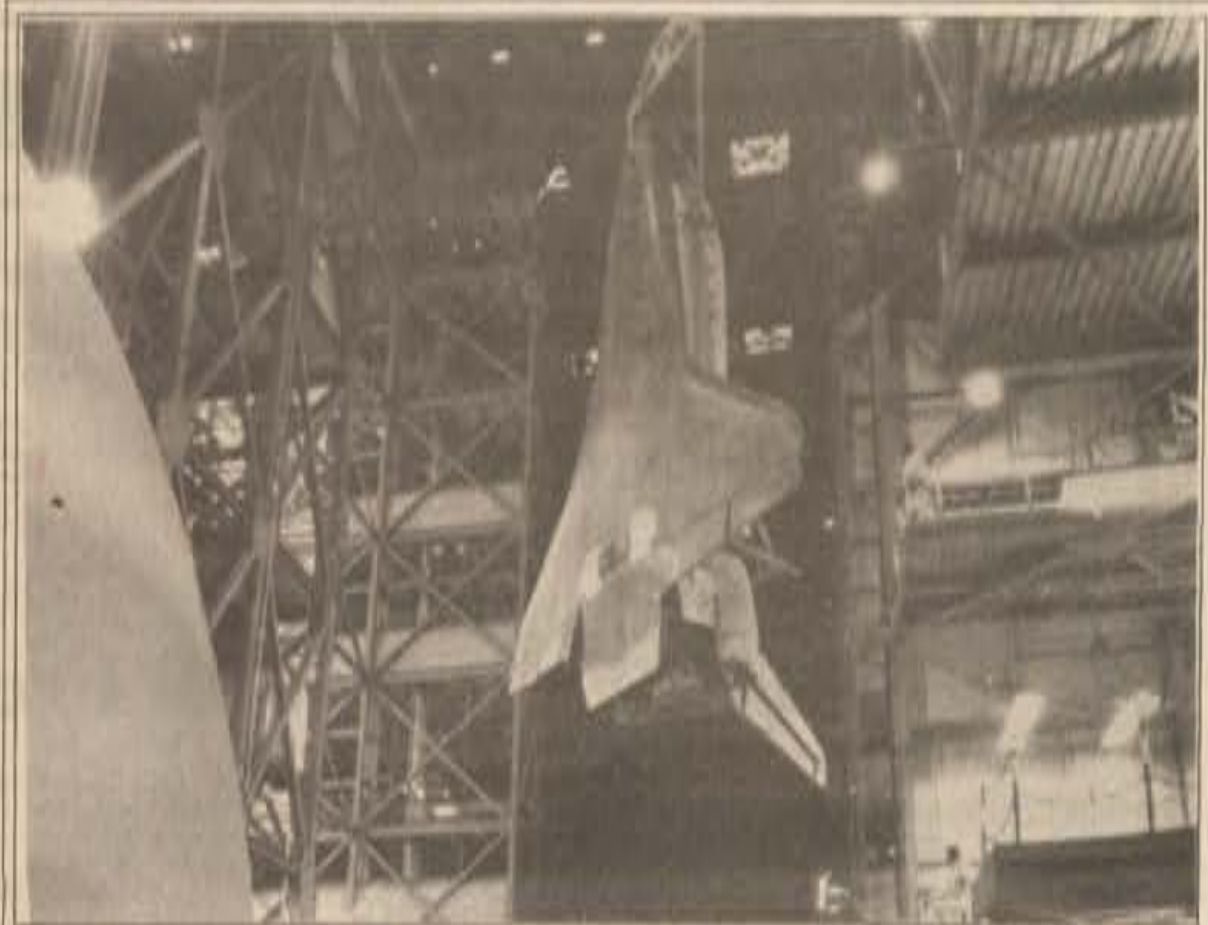
NASA, which is renowned for its science, must strengthen its outreach to the science community to improve the integration and coordination of research.

### Earth and planetary science

The Office of Science and Space Applications will be divided into two parts to bring focus to the programs.

"Mission to Planet Earth is more than a duty, it's a moral commitment

### One step closer to launch



The Space shuttle *Discovery* is hoisted far above the external tank and solid rocket boosters in the Vehicle Assembly Building in preparation for its next flight. After testing connections, *Discovery* will be rolled out to Launch Pad 39A. *Discovery* is scheduled to lift off in early December for a one week Department of Defense mission.

see Future, page B9



Canadair opens training facility

By Craig A. Blumenthal  
Special to the Avion

Canadair has opened the first training center for the Regional Jet (RJ) in the Montreal Headquarters of CAE Electronics, developer of a state-of-the-art full flight simulator and training device for the 50-seat airliner.

The regional jet program is supported by over 35 firm orders, with 36 options and 74 letters of intent placed by Lufthansa, Comair (regional feeder carrier for Delta), Skywest, and British Airways. Deliveries of the first Regional Jets will begin this year.

Pilots for Lufthansa Cityline (the regional affiliate of the German carrier) and Comair, two launch customers of the RJ, are currently participating in courses at the Montreal facility, that meet the regulatory requirements of the German Regulatory Authority and FAA respectively.

The architects of the Canadair Regional jet program have integrated advanced computer based and aided technology into a progressive training environment, simplifying learning while maximizing the training dollar.

Students progress through three

phases; ground school/classroom, computer based training (CBT), and a flight training device (FTD), before ultimately flying the full flight simulator.

A (CBT) system composed of a Macintosh PC integrated to an Iris Display, projects virtually every operational component of the RJ from avionics to pneumatics.

Through an interactive computer simulation, instructors are able to present each system as it functions in the actual aircraft, right before the students' eyes. High resolution color graphics display each system with stunning detail and clarity.

The typical classroom environment with thick aircraft manuals, cardboard mockups, and slide projectors pales in comparison.

After students are familiarized with all major a/c systems, performance factors, flight characteristics, and emergency equipment, they are divided up into individual computer based training (CBT) learning stations.

Under the supervision of qualified instructors, students pilot their way through various subjects and interactive operational tasks at their own pace, via a touch sensitive screen or mouse.

By actually operating each system

from hydraulics to avionics through an interactive computer simulation, students are able to acquire a working knowledge of systems before progressing to a functional mock-up of the RJ cockpit.

The level 6 FTD is a functional training mock-up of the actual Regional Jet cockpit, capable of full aircraft system an aerodynamic simulation, but without motion or visual systems.

Students are able to transfer their knowledge of systems operation into a working environment without being immediately overwhelmed by visual and motion sensations.

The FTD allows students to familiarize themselves with the cockpit, and practice normal and abnormal procedures, while working together as a crew. As a result, training time in the full flight simulator is maximized.

Flight simulators are divided into four levels depending on their degree of accuracy, from Level A - least accurate, to Level D - most accurate. The crown jewel of the RJ training program is a phase II Level-C full motion flight simulator.

The simulator features a six degree of freedom, advanced motion

see Canadair, page B9

Blue Angels visit Jacksonville



The Navy's Blue Angels came to NAS Jacksonville on Sunday, November 1. The military demonstration team dazzled the crowd with precision aerobatics. They also showed off the capabilities of the McDonnell Douglas/Northrop F-18 Hornet. This aircraft replaced the A-4 Skyhawk, which the team used to fly.

GI Bill now to pay for solo flights

AOPA Press Release

FREDERICK, MD — The Aircraft Owners and Pilots Association expects quick presidential approval of a Senate-passed measure (H.R. 5008, Veterans Reemployment Rights and benefits) that will make solo flight training expenses eligible for vocational training reimbursement under the federal Veterans Flight Training Benefits Program.

AOPA president Phil Boyer said, "Senator Tom Daschle (D-SD, AOPA #123716-4) is our champion on the veterans flight training issue. He led AOPA's push for inclusion of solo flight training in this year's legislation. Thanks to him, our ten years of efforts to reinstate and expand veterans flight training benefits have been successful."

Previously, only dual instruction expenses were reimbursable through the Veterans Flight Training

Benefits Program. AOPA has long pressed for inclusion of solo flight training to help ensure an adequate supply of qualified commercial pilots for the future of the U.S. national air transportation system. Nearly 50% of flight training is spent in solo flight and the newly passed legislation is expected to significantly reduce the personal expenditures of qualified veterans pursuing vocational flight training.

In 1981 Congress terminated vocational flight training benefits under the former G.I. Bill. AOPA immediately became a leading proponent of reinstatement and, in 1989, Congress passed legislation sponsored by Senator Daschle which allowed benefits for veterans eligible under the Montgomery G.I. Bill. Last year, legislation expanded the program to include veterans eligible under the more recent Veterans Educational Assistance Program (VEAP).

AOPA president Boyer said,

"Expanded flight training benefits have important national implications as well. Statistics show that this country is on the brink of a critical pilot shortage — not just in the airlines, but in other areas such as air ambulance, crop dusting and corporate pilots. Veterans deserve a chance at these jobs and this provision will help make that possible."

The flight training benefits program, administered by the Department of Veterans Affairs, entitles eligible veterans to receive up to 60percent reimbursement for advanced flight training or ground instruction to a maximum amount of \$10,800. Veterans should contact their state regional office of the Department of Veterans Affairs for details.

AOPA represents the interests of its 300,000 members who own and operate general aviation aircraft throughout the United States, and is the world's largest civil aviation organization.

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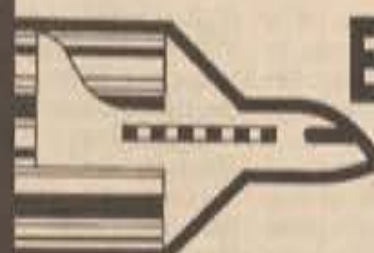
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# KISS, Trixter and Faster Pussycat rock Daytona

By Douglas O. Fischer  
Shawn Mc Bride  
Michael E. Senn  
*Diversions Writers*

**Trixter**  
On October 29th, MCA recording artists Trixter were the first of three bands to perform at the Daytona Beach Ocean Center.

After pushing through the crowd I found a spot behind the barricade in front of the stage. The perspective of

a concert changes when you are in the front row, everything can be seen and the sound is explosive. The pressure waves from the bass drum beat my heart for me.

Trixter is a band with energy, and they show it when they played their classic hard rock style music before the crowd. They were constantly running across the stage while giving a powerful performance.

Those attending knew the words and were singing along throughout the show. Tunes played included,

"Give it to Me Good" and "One in a Million" from their debut album and "Road of a Thousand Dreams" from their new album *Hear*. This new release contains 12 songs, all of which are worth listening to.

I expected to see four high school boys up on stage. What I saw was four grown guys playing classic rock sounding music with energy and feeling. The only thing bad about the show is that it was too short.

Thanks to Chip Ruggier we were able to meet the band members after the show, where they carried themselves like professionals. They do enjoy performing on stage and handled all the attention well.

It was hard to believe there were still two more bands to go.

**Faster Pussycat**  
The second opening act of the Kiss concert was Elektra recording artist Faster Pussycat.

As the lights dimmed, all that could be heard was the song "Cat Bash." The band then came on stage and began to play before the Ocean Center crowd.

Some of the songs the band played included "Cat Bash" and "Noa-stop to Nowhere" from *Whipped*.

They also played "Where there's a whip there's a way" from *Wake Me When it's Over*.

When "House of Pain" was played, the audience sang along with the band. This song is a ballad filled with Taimé Downe's heartfelt memories of growing up with an absent father.

As part of the bands trademark from the first album, party-hearty, lust filled lyrics, the band played "Slip of the Tongue." This song deals with making love, a topic that was popular among the audience.

After a quick change of clothes, Downe came out wearing a steering wheel around his neck and they then played "Babylon" from their self



Faster Pussycat works their way around the cat-like themes of their albums.



Peter Loran and Steve Brown of Trixter giving it their all at last weeks concert in the Ocean Center.

## The Coliseum hosts a really, really scary Halloween contest

By Jason Simon  
*Diversions Writer*

Halloween only comes once a year. It is a time when ghouls and goblins descend upon the Earth like crazed lemmings. Fortunately many of those ghouls decided to make an appearance at the Coliseum Dance Club for their annual Halloween bash.

The Coliseum was packed to capacity this year. Caskets and tombstones lined the entranceway while mummy's and other assorted nastys scared the life out of the costumed customers.

The main room was decorated with large spiderwebs that would make Peter Parker proud.

The costumes worn by the party-goers were not as creative as last year. Last year the crowd was treated to such likenesses as a giant sperm, complete with scuba gear, the cowboys, a group of desperados built into paper mache horses and the winner of the contest last year, a cardboard paper box painted to look like a building with a live monkey perched atop it. Yes Pay Raye fans it was the one, the only King Kong.

However, many of the costumes deserve plenty of merit. Among the

winners in my book were the streaker. A man, a sea through body suit and a giant rubber phallus covering the actuals, 'nuff said.

Dickman, Superman with a four foot schwantz made out of panty hose. The flasher, a woman, another sea through body suit and a piece of felt to cover the naughty bits! Finally a Terminator with a realistic looking mask, glowing eye and a metal hand that really worked!

Among those costumes in the get a clue category (specially designed for those with a lack of imagination)

included the endless catwomen that showed up, with or without their Batman. The endless men in drag! The dead guy, actually a live guy pretending to be dead! Should have stayed in the morgue with Quincy Mr. dead guy!

In the I'm having trouble with the concept category, Clockwork Orange five guys and a girl wearing see through masks and black clothes.

Do you know what a droog is? Get yourselves kicked in the yarbles, if you have any yarbles! Sheesh, guys watch the movie, read the book, buy the lunchbox!

Finally, to the Madonna-wannabe with the six foot long shiny wadhead reentry vehicles attached where her booters should be. Register those babys as deadly weapons! You almost killed me twice!

In the overall way too sexy for any man to handle without drooling category there is only one winner! A petite, oriental leopard with the cutest tail on earth (cat tail that is). It was painful for me to watch her dance, since I continued to step all over my tongue!

Well, when it came time for the actual contest, for the actual money

and prizes there was a surprise winner of first place. The winner was Hurricane Andrew, just back from his grand tour of Miami. Actually they were two guys dressed in suits with umbrellas and ties that looked like they had just experienced the shockwave after a nuclear blast. Not bad. In fact good enough to win the cash and prizes from the Coliseum.

Overall, the Halloween bash was an excellent party. Despite the nastys, ghouls and goblins, only Dracula sucked that night. If next year is going to be as good as this year, I better start getting my new costume ready.

## Mudhoney slices out Piece Of Cake

By Fred Block  
*Diversions Writer*

The intro song on Mudhoney's new CD *Piece Of Cake* is a sarcastic and lashing interpretation of the Techno movement and is one of the funniest things I've heard in ages. Thirty-nine seconds of Techno-bash. Hilarious.

This piece of nasty critique fits perfectly into the Mudhoney puzzle. Singer-guitarist Mark Arm has a sound to him that just makes me laugh. He hits hard on things with which he doesn't agree. He can be rough, and I like it.

Seattle must be obliged to cite Mudhoney, or at least its members, for the development of its so-called signature sound.

Arm and guitarist Steve Turner are from the now defunct band Green River, while drummer Dan Peters has had stints with the Screaming Trees and Nirvana. With the exception of bass player Matt Lakin, (Mudhoney is his first band) the Seattle scene is incestuous by nature.

Everyone plays with everybody. Arm describes the band with a twist on a quote from Spinal Tap. "We're like the lake-warm water that flows between the hot water of Pearl Jam and the cold water of Nirvana." Others describe it with the now-so-popular word grunge. (Arm characterizes grunge as "anything just kind of dirty and f---ed up." Either way, it's cool enough for me.

The trouble with being in a small band turned big is the whole "sell-out" issue.

*Piece Of Cake*, Mudhoney's fourth CD, is the first under the mega-corporate Reprise/Warner Brothers label but maintains the same feel as earlier releases under the Sub Pop label out of Seattle. That could be because recording was still done at home in Seattle's Egg Studios, who knows?

*Piece Of Cake* is comprised of 17 tracks, four of which are only 30 seconds long. Out of the 13 remaining full songs, only half are really capable of withstanding repeated listenings.

Standouts include "No End In

Sight," with its classic Mudhoney sound and "Blinding Sun," which somehow blends punk and piano. My personal favorite is "Suck You Dry." Its catchy power pop chorus makes it the perfect choice for the first single. Arm screams:

"No time like the present  
To get ripped apart.  
Got this burnin' desire  
Aimin' Straight for your heart.  
Suck you dry.  
Suck you dry.  
Can't breathe 'til I  
Suck you dry."

The punching bass and mashing guitars would be sure to stir up some activity at a live show. Speaking of which, Mudhoney should be playing near here rather soon.

If you're looking for something with a dirty, looser sound, give *Piece Of Cake* a listen. This album might not be suited for everyone out there, but most of you punk rockers out there ought to be able to milk some fun out of it. Do like the band urges, and "let yourself go!" And remember "TECHNO .....Ayeeeee!"

## CLARKE'S CORNER: Clarke reminisces the old classics as he reviews *Consenting Adults*

By George Clarke  
*Diversions Movie Critic*

Did you ever see *Vertigo*? If you haven't, you've got to rent it this weekend. In this Alfred Hitchcock film, Jimmy Stewart plays a detective who's hired to follow this wealthy guy's wife. But he ends up falling in love with her, and this really makes a mess out of things—especially when the girl ends up dead. At this point, Stewart starts seeing the girl everywhere—in restaurants, gas stations, tea leaves—and he begins to question his own sanity. Is she really dead? Am I crazy and obsessed? Is it actually a conspiracy? Tea leaves?

All right, let's go for double or nothing. Have you ever seen *North by Northwest*? If not, rent it. This is another Hitchcock film, and in it Cary Grant plays an ordinary guy who's accidentally caught up in a spy ring. He falls for the beautiful American agent, too—but she's supposed to be the girlfriend of the bad guy.

In one of the last scenes of the movie, Grant spends considerable effort in trying to get into the guy's house to warn her that her cover's been blown. He has to crawl up rock faces and climb up walls to get to her room. If he doesn't warn her in time, the bad guy will kill her.

So what does this have to do with *Consenting Adults*? You'll see. But first let me tell you what it's about. Kevin Kline plays an ordinary guy in this one. He's a typical ultra-conservative middle-class, with a middle-class wife (Mary

Elizabeth Mastrantonio) and a middle-class daughter. He lives in a nice middle-class neighborhood, too.

But one day he gets some new neighbors. They're a handsome young couple, and Kline gets a chance to meet the husband during one of his morning jogs. It turns out that the new neighbor guy has one of those type-A personalities—you know, he's the kind of guy who'll jump out of a plane with some twine and a brassiere and claim he's parachuting.

Anyway, the neighbor guy somehow convinces Kline's character to do several type-A things, like fake an accident in order to collect a thirty-thousand clam insurance policy. Meanwhile, Kline is falling in lust with Mrs. neighbor guy. One day, the neighbor guy proposes a little wife swapping—he suggests sneaking into each other's house during the night and slipping into bed with the other's wife for a brief sexcapade. (Apparently, some housewives don't mind if things like this happen to them.) Kline reluctantly agrees, the appointed hour comes, and Mr. Conservative sneaks into Mrs. neighbor guy's bed for some midnight nookie.

Oops! The next morning, Kline finds himself in the slammer. He's been charged with killing the girl, and his prints are all over the body. He does get out on bail, but his wife leaves him, his neighbor friend hates him, and his life is messed up. And to top it off, he begins seeing the dead girl everywhere he goes. In bars. In gas stations. In tea leaves.

Now the neighbor guy gets frisky with Mastrantonio, and they move in together—in a nice big house. This puts Kline over the edge, so he enlists the aid of an insurance investigator (Forrest Whitaker) to help him get to the bottom of this. The rest of the film follows Kline and Whitaker as they unravel the scam.

Was the film good? Yes. It's a neat little murder-mystery/sex thriller. There were some minuses, though. To be technical, Kline's character seemed far too conservative to ever let anyone convince him to pull a stunt like have an affair.

The direction was sometimes disjointed. Occasionally a bad edit would creep in, leaving the viewer a little disoriented. At times the film seemed to be desperately trying to copy *Basic Instinct*. And the basic structure seemed to remind me of *Vertigo* and, and in the end, *North by Northwest*.

But who cares! This was a fun little movie. I enjoyed tagging along with Kline as he struggled to exonerate himself. (It was even more fun tagging along during the love scenes).

Yeah, *Consenting Adults* seemed to remind me of older, better movies, but taken at face value, I think you'll have fun. Another bonus: it is now being shown at the outhouse-sized auditorium at the theater. This is the kiss of death—*Consenting Adults* will be at the dollar movies in no time. It's a great diversion, and worth a matinee. It'll be an even greater value for one clam.

## Madonna's new nude number is causing a big cajun commotion

ALEXANDRIA, La. (AP) A resident here has asked Alexandria authorities to investigate Madonna's new book *Sex*, claiming it violates Louisiana's anti-obscenity laws.

The book came under attack last week when Ronnie Richmond of Alexandria filed a complaint with the city's police department on behalf of a group called the Rapides Parish Chapter of American Family Association.

Richmond contends Madonna's

book pushes the limit of sexual expression by including photographs depicting homosexuality, lesbianism and sexual intercourse.

District Attorney Charles Wagner has said that he will review the book to determine whether the publication falls under the obscenity law.

If the district attorney's office finds the book obscene, it could schedule a district court hearing which would ultimately decide whether the material is obscene.

As of Friday, Wagner had not made a decision on whether he would call for the court hearing.

If a hearing was called and the book was determined to be obscene, it would be banned in Rapides Parish only, he said.

The controversial book went on sale in Alexandria last week. It's sealed in mylar, and kept under bookstore counters in most cases and must be requested by name. *Sex* costs about \$50.



## Bad Company scared up a good concert

By Michael E. Senn  
Divisions Writer

Bad Company swept through the Orlando Arena October 16th on their "Here Comes Trouble" tour.

Drummer Simon Kirke (ex-Free), guitarist Mick Ralphs (ex-Mott The Hoople), and vocalist Brian Howe (Ted Nugent band) lived up to their fan's expectations of the band that has been described as one of the most recognizable and unique sounding rock groups in the world.

It's hard to sit through a concert when you know every song by heart, and every one was a hit. I guess that's why everyone stood throughout the entire show, sometimes singing louder than the band itself. "Ready For Love," "Feel Like Makin' Love," "Bad Company," "If You Needed Somebody" and "Shooting Star" are just some of the favorites that we were treated to.

The first single release off of their new album "How About That," now receiving a lot of air play, proves



Brian Howe of Bad Company between sets.

that the chemistry of the band is still there after Brian Howe joined in 1990 with the release of *Holy Water*.

Other, more romantic cuts off of *Here Comes Trouble*; "Stranger Than Fiction," "Hold On To My

Heart" and "This Could Be The One" are some gems that you're bound to hear a lot more of.

If you missed the concert, you owe it to yourself to pick up the new album.

## Bo Diddley and Ronnie Wood's new album converts students to jazz fans

By Douglas Schultz  
Divisions Writer

I would like to state that I am not a big jazz listener, so when I was first approached I was quite hesitant to listen to Bo Diddley and Ronnie Wood's new album *Live At The Ritz* by Victory music Corp. Anyway it turns out I graciously accepted to sample the album at my earliest convenience and give my opinion about what I have heard.

The next evening after a long day to school and work I decided to relax and listen to the album. So I and my girlfriend sat on the couch, after I placed the C.D. in the player and pressed play. As we sat with a drink in one hand and stereo remote in the other poised to changed disks

if what I thought we were going to hear came out of the speakers.

I must admit that change never came to pass, for after ten seconds to my great surprise, music of which I really didn't like to listen too became quite enjoyable. To tell the truth another thing that made me hesitate to listen to the music was the word "live." In my experience of listening to music some state that they are "live" that could be true live out of the studio when taped. So, I was very pleased to be listening to a real live production. The only way I knew it was an actual live production was that in a couple of songs you can hear the buzz of the amps and a taste of feedback.

Upon completion of the C.D. I was very delighted with it, and my

girlfriend said she wished she could have been at the Ritz for the show.

She said if the C.D. was that good, then the live, in-person show must have been even better. I have recommended this album to my family and friends.

What I feel most appealing about this album is that it is soft in nature, soft enough to study by, also as background music for social events. I have personally tested that fact at dinners, intermissions and pre-show music at various school functions.

I find that these two artists have proven once again that jazz is not something you learn, but something you have and are born with, for it comes from the heart and soul.

They manage to share it with every stroke they make with style.

## Bob Dylans son follows in footsteps

By Michael Sanzano  
Divisions Writer

Finally! A band that takes us back to back basics. The Wallflowers debut is a musical experience not to miss.

Jakob Dylan who is yes, Bob Dylans son, has this excellent new band. The album has its share of rockin bluesy and soulful tunes to its slow meaningful songs. They open with "Shy Of The Moon" a rockin roll tune that shows right away that this band has gone back to the basics, there are no loud screaming guitars, no synthesizers, screaming or sounds like they are destroying there equipment. They rely just on the Guitars, Bass, Piano and Drums which they use to there full extent.

For you that may be interested in the Wallflowers but are afraid of the Bob Dylan vocal sound don't fear of course there are similarities but

Jakobs voice is more like Bruce Springsteen or Mark Knopfler of Dire Straits.

In the song "Sugarfoot" they really show off there talent with Jakob Dylan on rhythm guitar and gruff vocals, Rami Jeffers swirling B-3 organ sound, Tobi Millers slashing guitar, and the bass and drums of Peter Yanonitz and Barrie McGuire.

The homeless issue is the subject for their next tune called "Sidewalk Annie" although they don't give any answer to the homeless problem they do talk about who it sometimes does effect with lyrics such as "Invested a nickel into the banks of a wishing well and blow out all the candles and hoped for something she could sell."

On tunes such as "Be your own girl" and "Another one in the dark" the band slows down a bit but never loses your interest with stunning playing by all and excellent piano

playing on "Be your own girl."

With their first single "Ashes to Ashes" they blast through with what most of us guys know about. A girl who you really care about treat well buy plenty of gifts for and they just pretend to be sincere. They just let it go on and on and before you know it "I don't remember you from any of those books. Ashes to Ashes and six feet under face down in a box."

The group became the buzz of L.A. underground music scene at the notorious "Kibbitz Room." The Wallflowers launched there now famous Tuesday night jam session in 1990 which provided the band with a comfortable sound and it landed the group with a record deal with virgin records.

Look for the Wallflowers in there upcoming major U.S. tour with 10,000 Maniacs. This is one band you will not want to miss.

## The Tom Tom Club releases chart climbing *Dark Sneak Love Action*

By Rick Arkwright  
Divisions Writer

"Hey everybody, let's go to the homecoming party and get funky with Tom Tom Club!" I bet they play a bunch of stuff from their new album... Whoops. I just heard that they weren't coming.

What you would have heard if they had shown up, was the huge, often sampled 1989 single "Genius Of Love," and probably a bunch of stuff from their second album, *Dark Sneak Love Action*.

Tom Tom Club features the former rhythm section of the late, great Talking Heads. Chris Frantz on drums and Tina Weymouth on bass. Whether because they're married or have just played together for so long, these two have some of the tightest grooves imaginable.

As Talking Head's, they laid the bedrock foundation for David Byrne's marvelously quirky guitar lines and lyrics. As Tom Tom's they continue to impress with their abili-

ties as players, but Tom Tom Club is a very different animal than Talking Heads.

Almost terminally happy, *Dark Sneak Love Action* is mostly lighter than air dance music with a surprise, musicians who are truly playing their own instruments and playing them well in fact.

The band's simple philosophy is best summed up by Tina Weymouth who says, "You can do that New Jack stuff, but you can also dance nice and sexy, and that's really important to us."

Several songs on the album jump out at you. "Dogs In The Trash," with it's humorous lyric, great dog noises and oh ooh wa, oh ooh wa chorus, tells a tale of one person trying to lose another person who's been doggin' them. The song is so bouncy and full of fun that even I wanted to dance. If you knew me you'd understand that I dance nearly as often as when the country elects a Democrat for president.

"As The Disco Ball Turns," "Dark

Sneak Love Action" and "Who Wants an Ugly Girl," also propel the listener onto the dance floor with big meaty bass lines, funky, sometimes reggae tinged drums and some fine guitar playing by Mark Roule. This formula produces dance songs that not only sound good but are good for you too.

Strangely, Tom Tom Club chose to remake the '70s disco classic "You Soxy Thing," by the infamous Hot Chocolate. Tina explains that they thought it'd be funny to do the song from a girl's point of view. For whatever reason, it turns out funny alright.

It'd be awfully hard to dislike Tom Tom Club or *Dark Sneak Love Action*. They certainly mean no harm and the music is peppy, kooky nutty stuff that you can dance to. Still with all the talent this band obviously possesses it'd be great to hear them get serious once in a while.

Grade: B

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# SCAT

Section Editor

In the spring of 1993, the mechanic's club SCAT (Society of Commercial Aviation Technicians) will be offering two scholarships on the Daytona Beach campus. Each scholarship will be for \$500.

SCAT is funding the scholarships through the collection of aluminum cans on campus.

The club's treasurer, Warren Johnson, is in charge of the can collection. SCAT has collection points located around the campus and the club makes weekly pickups.

If you've noticed the green garbage cans around campus with the SCAT name on them, please take the time to put your aluminum cans in them.

The club's officers, Gene Zastara, Mark Danner, Roland Moorhead, Warren Johnson, and David Bunin, had a meeting on October 12th to discuss the scholarship.

# SWE

Special to The Avion

The officers discussed the requirements which would need to be met by students in order to qualify.

The requirements which were determined are as follows:

1. The applicant must be in a degree program which includes the AMT curriculum.
  2. The applicant must have completed at least two semesters of AMT courses (General and either Airframe I or Powerplant I).
  3. The applicant must have a cumulative GPA of 2.75 or higher.
  4. The applicant must have high financial need.
  5. The applicant must be involved in university/community service OR be employed 20 hours a week.
- Recipients of the scholarship will be chosen from the existing group of applications maintained by the Financial Aid Office. New applicants can apply in the Spring for scholarships to be offered in the Summer and Fall of '93.

An organization meeting of a student chapter of the Society of Women Engineers will meet in Room W306 on November 5 at 1:30 p.m. Any student may be a member but 50 percent must be women engineering students. Please attend this meeting. For more information see Mary Gurnee in room A110, ext. 6647.

The Society of Women Engineers (SWE) is a non-profit, educational service organization with the following mission:

- Stimulate women to achieve full potential in careers as engineers and leaders
- Expand the image of the engineering profession as a positive force in improving the quality of life

The objectives of the society are:  
-To inform young women, their parents, counselors and the general public of the qualifications and achievements of women engineers and the opportunities open to them.  
-To assist women engineers in readying themselves for a return to active work after temporary retirement.  
-To serve as a center of information on women in engineering.

-To encourage women engineers to attain high levels of education and professional achievement.

Since its formation in 1950, SWE has increased its size, sphere of activity and value to its members and to the public. Participation of student members - undergraduate and graduate - has significantly contributed to this growth.

## 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.
- ➔ 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.

# Soaring Club

By Daniel LaRow  
Member

The Soaring Club held its annual picnic at Massey Ranch Airpark in Edgewater. Club members and friends enjoyed a day of food, drinks, rides and aerobatic demonstrations performed by a Pitts Special and a Schweizer 126-C sailplane.

First time flyers were introduced to the world of soaring by John MacDonald, club Vice President. Many of the passengers were heard to say, "I'll be back." All in all it was a fun time. Depending upon demands, a third picnic may occur. Watch for further details in the *Avion*, in the U.C. and club box

located in the student mailbox room.

The Phebus project, the sailplane restoration project, is progressing along. All the paint on both wings has been removed and team members are starting on the fuselage. Help is still needed. If interested, leave your name and phone number in the Soaring Clubs mailbox located in Students Activities.

Future events include Professor Wencel's talk on Meteorology for Soaring. This will be held at the ASW building Nov. 18 at 7:00 pm in room 206. A ground school is planned for later this semester for those seeking their soaring-license or thinking of starting training. Normal meetings are held every third Wednesday of the month at 7:00 pm in R-613. All are welcome.

# ΣΠ

By John Pierson  
Member

Well, the Gator Growl turned out to be more of a whimper. We all had a good time anyway. We even had our own football game. Delta Hoagie caught the spirit of the moment by blowing chunks on the fifty yard line. Its now official that the Zeta Zetas' Florida room has

been rededicated to the whole house because we pretty much took over.

We all now know that Furry Fetus is more than adequate. I hope all the Brothers in the house got a full night sleep last week. I heard the neighbors were making a lot of raucous.

Hey the pledges got an early Christmas present too. In closing, lets make this Halloween party a big hit.

# AHP

By Jason Piper  
Member

Well brothers, I once again find myself at the computer pounding out an article. I had one all written for this issue, then it got cut, now it's back in again.

During my brief hiatus to go to Chicago many things went on in the Epsilon Rho hanger.

The brothers took a trip to F.L.T. They had a Halloween party with the Sigma Alpha chapter of AHP. The night turned out to be an excellent

time for all. In the aftermath of this party, there are rumors that Sam is trying to steal Belt's name. I heard that the football game was another blowout. Next: Playoffs!!! The final score of the game Sunday was 27 to 6. Touchdowns were scored by Tom Mullarkey, Craig Hughes and Gregg Belter. I'm sorry if I've left anyone out or have facts incorrect. The paper goes to press in 30 minutes. What can you do?

Remember. Finals are just around the corner. It's time to crack open those books.

# Army R.O.T.C.

By Jon Jackson  
Member

Water survival was on the mind of cadets at their last training lab. Each cadet went through four training stations.

The first station was the 25 meter swim. This station is used to identify weak and nonswimmers.

Upon completion of the 25 meter swim, cadets proceeded to drown-proofing training. This training teaches how to use their Battle Dress Uniforms as flotation devices in case of crisis situation.

Following drown proofing was the expected entry off the one meter board. Cadets walked off the board into the water wearing their web gear and with their weapon extended over their heads. The objective of this exercise is to keep the weapon out of the water while swimming to the pool's edge.

The final exercise, and what cadets call the most exciting, is the

unexpected entry off the high dive. After climbing into position on the high dive, cadets are blindfolded and moved to the edge of the board. The instructors, Cdt. Joe Lineberry and Cdt. Hilton Nunez, then ensure the cadet has their weapon at port-arms and helps the cadet into the water.

Each of the training stations have very practical applications for today's soldier.

In other training news, MST's and MSIT's completed basic rifle marksmanship over the weekend.

Each cadet zeroed their weapon and then went through a 40 round qualification.

Congratulations go out to Simmons and Johnson for qualifying expert with their weapons. And to the mystery stud who shot a perfect 40 out of 40. Job well done.

Congratulations go out to Cadets Joe Lineberry and William Holburn for their induction into Omicron Delta Kappa - The National Leadership Honor Society.

# AXA

By Fisher  
Member

Neel Neel! What is new with the men wearing the purple, green, and gold. Well, we are in yet another month of hell. Homecoming is this weekend and it's going to be great. We have the formal dinner up at the President's Palace.

We have quite the plethora of Alumni Brothers coming into town and a few Crescents, so the dinner should be a great time. The Homecoming Basketball game is on Friday, so let's show who's Fan of the Year. The Brother's Vote is next week, so get on the ball A.M.'s.

Now let's take a look at sports. The hockey team tied its first game, and the football team is going into the playoffs undefeated. (Very impressive!) The softball team should be starting up practices very soon, so get in touch with Steve "Jumpin' Jack Flash" Jehle so you can get on the team. Walleyball is also starting up, so get with Pelli.

The Top Ten Reasons why people

aren't handing in any Top Ten lists.

10. Mark H. and Whitey, too busy picking up heinous Navy girls at the Coliseum.

9. Eric "Pigpen" Shannon, taking a week long shower, so he won't have to for the rest of the year.

8. Pelli, too busy styling his hair like that "Pop off" Lego hair. Seven. Marcus A.K.A. "The Carp" was too busy trying to get around Florida's molestation laws.

6. Nick is always rearranging his spectacular Umbro collection. (And a nice one it is too!).

5. Brian E., fantasizing about his "so called" truck that is only a figment of his imagination.

4. Vinny, eternally searching for Jackie's Tater-Tots.

3. Luke and Rich got so enthralled in the capture the flag game that they both got Vietnam flashbacks and are still searching for P.O.W.'s in Ocala National Forest.

2. Eric "Ak-Mal" Q. is still planning his triumphant return home to his beloved Syria.

1. Dodds, too busy trying to live up to his nickname "Twang master". Teel Heel Heel!

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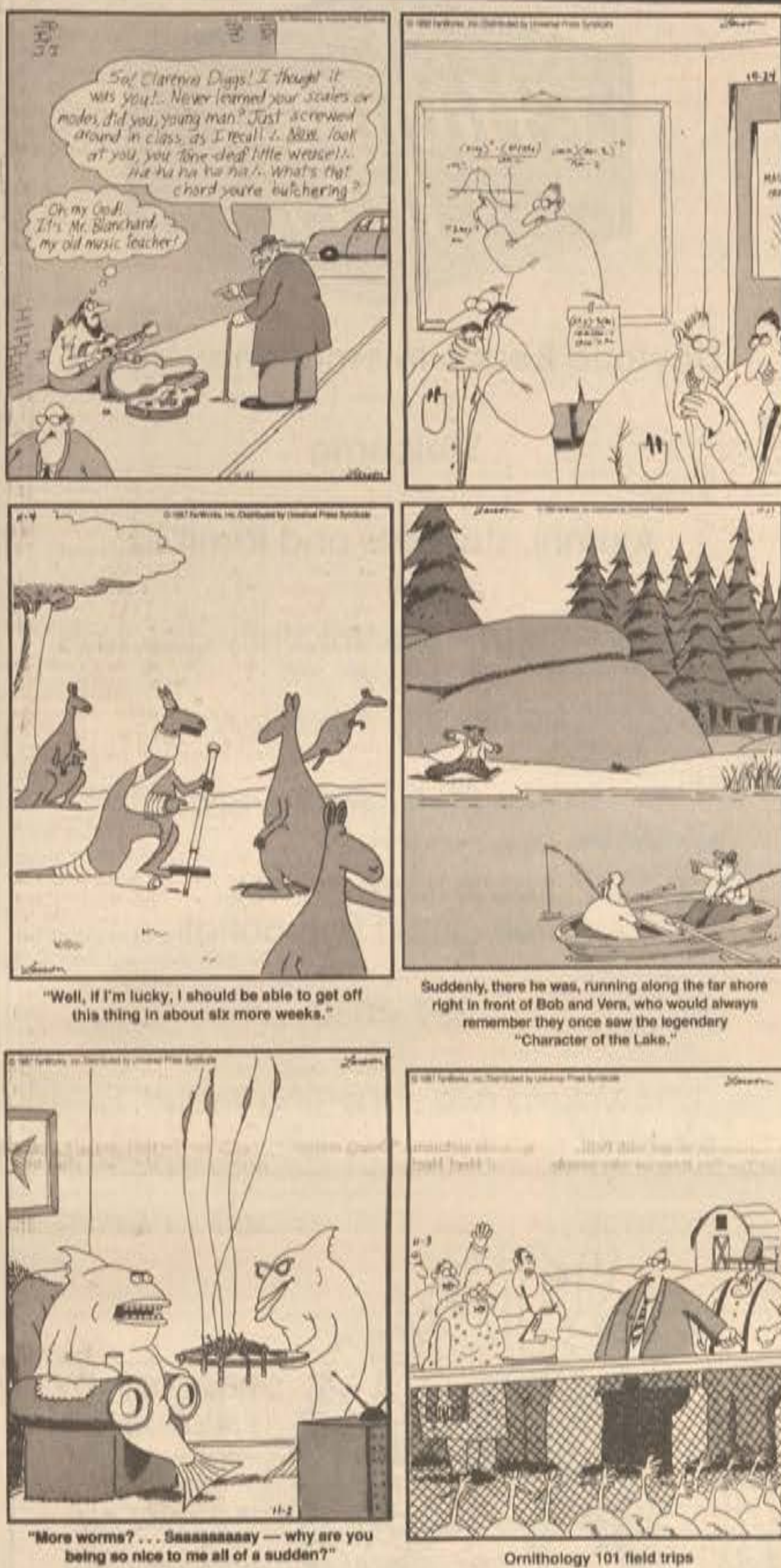
## Calvin and Hobbes

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## ➔ Roomates &amp; Rental

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Clean, responsible roommate needed for 3-bedroom house in Fairway Estates. \$200 a month plus 1/3 phone, electric and cable. Junior or Senior preferred. Call Ron at 248-3259, leave message.

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Posters: 42"x60" wall posters REM, New Order, Siouxsie, good conditions, \$4 each or all for \$10. Call Jay 257-2462 (leave message).

Scuba Gear- Sherwood quick release, adjustable B.C., Sherwood Magnus regulator with Oasis, Oceanic Compost, Oceanic Depth Gauge, Oceanic Pressure Gauge, Avanti fins, Two masks, snorkel weight belt. All for only \$450.00. Call Ralph after 7 p.m. 274-3354.

Computer for sale! Leading Edge (8088) CPU MS-DOS 3.20 (512K) Hard drive and 5 1/4" DD Magnavox color monitor Panasonic KX-P1080i Printer \$2000.00 worth of software. Call Tony 255-7099. Must sell \$600.00 OBO.

.22 Smith and Wesson model 422, blue finish, 6-inch barrel, case and extra 10 round clip. \$200. Contact Shawn box 1112 or call 760-3166.

Microwave Oven \$25. Call 756-8267. For Sale: Sony Microcassette Recorder \$10, Sovereign 12-speed \$40, U-lock and air pump included, Panasonic 5" black and white T.V. \$15, Macintosh Plus computer system \$1300. Call John at 257-4836 and leave a message.

Sony home computer: monitor, keyboard, printer, processor unit with hard drive. WordPerfect, DOS, Lotus 123 D-Base, Resume maker, Financial Calculators. \$500.00. Call 756-8267.

Karwood Stereo System CD Player, double tape deck, AM/FM Tuner, turntable, ad cabinet \$30. Call 756-8267.

## ➔ Miscellaneous

Multi-engine flight training or hour building. Fly at your convenience. \$85 hr dual / \$75 dual block time. This is not time sharing and is the best price in Daytona. Call Mike or Jack at 756-1494.

Multi-engine instructor ratings for only \$715 dual block time. Only 15 hours of PIC needed for this rating and no instrument work is involved. This is not time sharing, you fly all the time. Call Jack or Mike at 756-1494.

## CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with 35 word limit.
- ➔ All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- ➔ Commercial advertising is available through the Avion advertising department, at 226-6051.
- ➔ Classified advertising is carried out by filling out a classified ad card in the Avion office.
- ➔ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- ➔ Only paid ads will run 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.

GOLD'S GYM  
1 WEEK FREE TRIAL MEMBERSHIP.  
Bring in this classified and ask for Kyle. Located in the Trails Shopping Center, 306 N. Nova Road, Ormond Beach. 677-4949

First Impression are important! Don't take chances... have your Resume professionally typeset. \$17.50/1st page...\$10.00/each additional page. Price includes Free pickup and delivery in the Daytona area! Call Dave at 756-7851.

Private Tutoring: Need help in Math, Science or Engineering classes. I can help you. I have a degree in Aeronautical Engineering. Call Kenny at 788-3426.

Attention Pilot: Make job hunting easier. resumes that have employed hundreds of pilots now available by phone. Airline address label and return labels included. (407) 296-409.

Get your CFI! Fast and cheap. Best training available. Highest quality from experienced instructor. Also available, Private, Commercial, BEB, etc. Call Ken at 760-9265.

Auto repair: All makes & problems accepted no job to small, no price to big. Oil changes to engine changes. Call Jay 257-2462 or Rich 248-3212 (leave message).

Learn to Fly: Private, Commercial, Instruments, Biennial, or just for fun. Quality instruction and reasonable rates. Call David at 760-4801.

EARN EXTRA INCOME-  
Earn \$200-\$500 weekly mailing travel Brochures. For information send a stamped addressed envelope to: Travel INC., P.O. Box 2530, Miami, FL 33161

## ➔ Personals

Job Position: Intelsat's boyfriend  
Status: CLOSED until further notice for all you motivated people that keep asking, you can just send a resume to box 8441 and I will set up an interview, if there is an opening.

MY LOVE BRIAN,  
Well I'm finally getting a personal to you. So when are you cooking me dinner? I'm willing to work for it.  
LADY DI

THETA PHI ALPHA  
Thanks we're going to have to change the Black Market Express to the Black Pin Tuna Express.  
Q: What do you get when two drunk Theta Phi's ride on a bus?  
A: A Puddle.

If all they did was piss on the bus, why does it smell like tuna?

Wanted: Theta Phi Alpha's with Bladder control.

TO THE THETA PHIDES:  
"Better to be pissed off than pissed on"  
BLACK MARTLET EXPRESS

THETA PHI'S  
Thanks for Friday the 23rd. You left us with tears in our eyes and filled our bus with the scent of fish.

"I bet they pissed in the pool during Greek Week, Too!"

DEAREST MONKEY BOY  
I want your body  
Love your Hunka Hunka  
HOMO-SEXUAL BURNIN' LOVE

ERAU ROTORACT CLUB  
Help plan the Homecoming Fly-in.  
Get involved in community activities.  
Meet important business connections for future relations.  
Meetings held every Tuesday at 7:30 p.m. in room E613.

SIL,  
Hey Babe. Keep that dazzling smile - it makes the day go better.  
AC

COTT,  
Sarang heyo — A lot!  
AB

ALPHA, BRAVO, DELTA, ECHO & FOXTROT  
Crunch  
THE CHEETOS

FRAN  
I have worked with myself.  
I have played with myself.  
I get more done and do better when I work with you.  
I have more fun when I play with you.  
Remember, the best work is play and the best play is work.  
TARGET

GROUP ONE  
It's not E-Z being Chee-Z.  
CHESTER

DET 157  
Watch Out! Take cover, because we're going to crush this group. In fact, we're going to take Honor Flight and Warrior Flight. Don't say you didn't get any warning.  
C-FLIGHT

ZIPPY  
Who have ya?  
ZAP

Since the Cold War is over we are going towards a smarter more technological military. Not! Check out how the Einstein's spelled library "lybrary" come on guys

PUSSCAT  
It's nice to have you back again. I know Doc is getting close and you don't have to worry. I'm yours where ever you happen to go.  
KITTY

New world records have been set for drinking, puking, looting and just plain being mischief. What should we do next?  
THE TRASH PUNCH GANG

THE LIGHTWRIGHT  
How did you like your six hour toilet bowl stint?  
THE TRASH PUNCH GANG

THETA's  
Hey you crazy broads, next time I catch you in my bus, you better be carrying mops!  
MES

DUSTIN E.  
It is a pleasure to welcome you to the bed!  
Now I'll have someone to talk to when she's at school! Can I call you big brodder?  
ANDY

MARTY  
Yield manager at Continental? So you expect to be collecting unemployment after your first week on the job? And when they fold they are going to blame it on who? The Yield managers, won't they???  
JAYCI

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Or, rush \$2.00 to: Research Information  
11322 Idaho Ave. #206-A, Los Angeles, CA 90025

## Canadair

(continued from page B2)

system and an innovative 150 degree wide-angle visual system, complements of CAE and Rediffusion. The system narrows the gap between the outside world and synthetic images, offering superior performance, three dimensional content, and stunning realism.

The image generator can be programmed to produce moving cloud layers, blowing snow, sand or dust during day, dusk, and night conditions. Flying has never felt so real on the ground thanks to "seat of the pants" flying sensations throughout a variety of flight profiles from the impressive acceleration of takeoff and climb, to the deceleration of decent and landing.

Flying the RJ demands the basic fundamental skills required to fly a Cessna Crusader.

A single multi-function, Engine Indication and Crew Alerting System (EICAS) display screen, eliminates many lights and gauges along with the need to learn system limitations, because of its ability to monitor and graphically display the status of almost every functioning

component from nose to tail.

The EICAS system is fully interactive, and thus capable of decreasing pilot workload while increasing safety.

The simplicity of the regional jet cockpit allows pilots to concentrate on flying duties and feel comfortable, knowing they have access to a wealth of information.

The Canadair/Bombardier Regional Jet reflects the joint efforts of engineers, pilots, and instructors to incorporate the full spectrum of Aerospace technology into a plane designed to meet the dynamic nature of the industry's needs for the future and beyond.

The RJ training program offers a diverse curriculum that includes the following courses: General Familiarization, Initial and Recurrent Training, Instructor/Check pilot, Flight Dispatcher, Jet Induction, and Flight Attendant courses.

Also available within the same facility are Airframe/Powerplant and Avionics courses.

Until two weeks ago, officials of the Canadair Regional Jet program, have been unaware of the presence of the University as a leader in Aerospace Education. Canadair,

owned by The Bombardier Corporation, is a company that employs over 32,000 people in the Aerospace industry worldwide. Jean Langevin, training manager of the RJ training program expressed interest in meeting with university officials to discuss potential for students to participate in the RJ program. "We're quite interested in exploring various opportunities with the University", said Mr. Langevin.

The RJ program would give students a rare opportunity to have access to state of the art flight simulation technology and advanced training concepts considered to be among the finest in the industry.

The Canadair RJ could be a prime candidate for the Universities new FA 495 course, developed by Dr. Steve Hampton.

The objective of FA 495 is to expose students to advanced cockpits and full flight simulation technology, while utilizing Cockpit Resource Management (CRM) and Line Oriented Flight Training Concepts (LOFT) in the process.

The existing outline of the course combines the schools Frasca 242T King Air simulator and a Boeing 747/400 or 727 full motion simulator, provided by Northwest Airlines.

## Future

(continued from page B1)

to future generations," Goldin said. "We must understand our environment - separating natural from human causes and effects - so policy makers can make decisions on hard data, not suppositions."

Goldin added, "We must build more spacecraft that are smaller, faster and cheaper. By studying our solar system and the universe, we will be able to better understand Earth's environment and its future, and see if life developed in other places."

## Aeronautics

Goldin announced in a recent

speech that NASA needs a better balance of programs between subsonics, National Aerospace Plane (NASP) hypersonics, and high speed civil transport. In addition, NASA needs to develop a strategic plan to ensure NASA has the proper facilities to keep America's aerospace industry the world's leader. The Office of Aerospace and Space Technology will be divided to provide focus.

"NASA needs to attract and work with America's greatest researchers and entrepreneurs in academia and industry," Goldin said. "This office will push America's technological frontiers. It will be the catalyst for innovation and commercialization of technology, for transferring technology to create jobs and opportunity."

READ IT!

KNOW IT!

BE IT!

DO IT!

JOIN THE AVION



This symbol can save our world.

Mine and yours.

The only one we have.

Don't blow for all of us.

Only together can we make a difference.

PLEASE.

RECYCLE YOUR COPY OF THE AVION.  
BEFORE IT IS TOO LATE.



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