

9-30-1992

## Avion 1992-09-30 (B)

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# AERONAUTICA

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## Beech introduces improved version of Super King Air B200

*Beechcraft Press Release*

Beech Aircraft introduces an improved version of the Super King Air B200 at the National Business Aircraft Association annual convention this year.

The first production unit of the new airplane is on display at Love Field as part of the NBAA static exhibit.

Like earlier versions of the B200, the new model offers unmatched utility. It carries more payload in a bigger and more comfortable cabin, operates from shorter airfields, and uses less fuel than any of its jet competitors.

Visually distinguishable from earlier versions of the Super King Air B200 by its four-blade propellers, the new airplane features numerous upgrades and systems improvements.

Propellers on the new B200 are 94-inch diameter four-blade McCauleys, replacing 98-inch three-blade McCauleys.

Shorter props result in reduced tip speed, generating less noise and vibration.

The new propellers use a new low friction aluminum hub, which gives improved synchrophasing.

In addition, the propellers are dynamically balanced for reduced vibration.

A hard-wired connector in the cockpit permits easy field fine tuning of the propeller balancing for the life of the aircraft.

In the cabin, 32 dynamic vibration absorbers attached to structural frames reduce interior noise and vibration levels.

Bagged type acoustic insulation replaces earlier battery type, giving better noise and temperature insulation, and more resistance to moisture absorption.

Scotch damp insulation replaces Scotch foam on the inside of the outer fuselage skin, providing more effective noise damping.

Taken collectively, these improvements enhance passenger comfort.

Additional improvements in the new B200 include a new flap actuator switch system that simplifies flap operation; a lighter air conditioning compressor that provides a 24-pound increase in useful load with no reduction in AC capacity, and a ground fine position on the power levers to enhance ground handling.

A new electric heat system with elements located in the air conditioning duct work provides improved cabin heating before

engine start, for increased passenger comfort. Cabin chairs have been restyled to provide better support and comfort.

Recontouring of the chairs effectively increases room between the seats in the club section by three inches.

The cabin interior has been redesigned to more closely resemble the Super King Air 350's, with 350-style sidewall consoles, cabinetry, window reveals and cabin partitions.

Cold cathode lighting replaces conventional fluorescent lights, for better cold temperature starting and true bright/dim capability. On the flight deck, 350-style crew chairs with tilt adjustment are now standard.

Crew oxygen is through EROS model masks stored in overhead brackets for quick donning capability.

For crew convenience, the gear warning silence switch has been located on the left power lever, and a flashlight is mounted in a holder on the left side of the pedestal. Initial models of the new B200 will have the same avionics as the current airplane.

Later next year, the new Collins EFIS 84 system will become standard, utilizing the APS-65 auto pilot.

A three-tube display of the EFIS



Later next year, the new Collins EFIS 84 system will become standard on all King Air B200 models.

84 will be optional, with a two tube display standard.

Pricing for the new B200 will be announced early next year.

Beech Aircraft, a unit of the Raytheon Company, is a leading aviation company.

It builds, markets and supports a

full line of general aviation aircraft, ranging from piston-powered models to jets, for the commercial, military and regional airline markets.

## Honeywell Primus 1000 system used on new Learjet

By Mike McGrath

*Aeronautics Writer*

Learjet is developing an all new business aircraft, the Learjet 45. The avionics package selected is Honeywell's Primus 1000 system.

This will be the first aircraft in its class with such a system. Some of the features are the engine instrument/crew alerting system (EICAS), dual data acquisition units (DAU), dual solid-state micro air data computers (MADC), dual Primus II nav/comm/ident radios, and Primus 650 weather radar.

The flight deck will have 8 inch by 7 inch displays. Honeywell will also incorporate a four tube electronic flight instrument system. This system features dual primary flight displays (PFD).

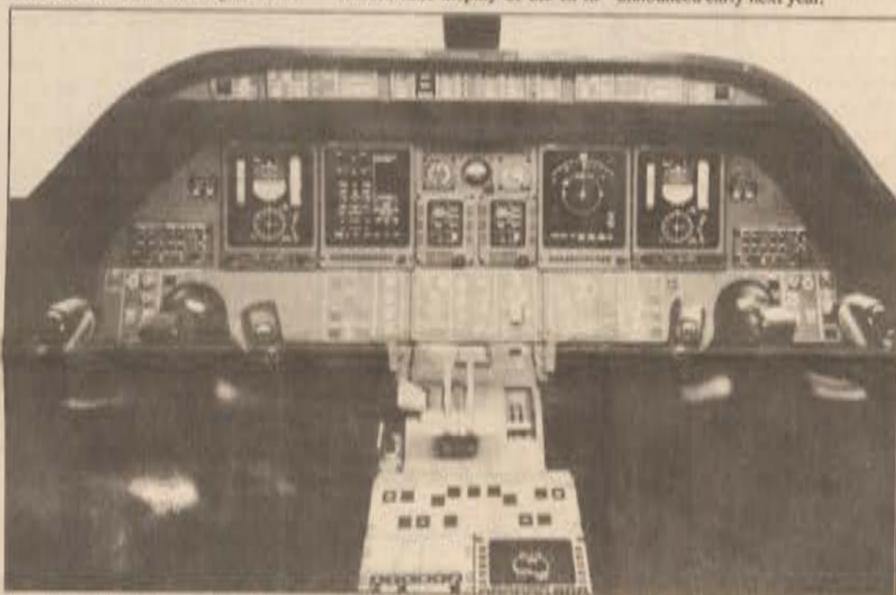
The most important feature is the Honeywell IC-600 integrated avionics computer (IAC).

This performs a very complex function. It combines the EFIS and EICAS processor, flight director, and digital auto pilot in a single LRU.

Honeywell has always led the industry in sensor technology. This is another plus for Learjet.

Specifically, the units are the DAU and MADC.

Unlike current computers, these



Honeywell's Primus 1000 system will bring a higher level of technology into the new Learjet 45's cockpit. The flight deck will have an 8 inch by 7 inch display with a four tube electronic flight control system (EFIS).

are only one third the size and more reliable.

The Primus II navigation/communication/identification radios will be standard. Positioned in a dual configuration, they will feature flat-panel radio management units. This system is the first fully integrated radio system.

These management units will allow central tuning. The displays for these units will be liquid crystal. This, however, is not the most out-

standing feature. As a first in the industry, the flat-panel display has back-up navigation and engine displays.

The weather system has the Rain Echo Attenuation Compensation Technique (REACT). This is a feature only found in Honeywell radio systems.

This will alert operators of storms located behind other storms. Information from the radar can be displayed on the MFD.

Along with these features, some options will be available.

These systems include the traffic alert and collision avoidance system (TCAS II), Primus 870 weather radar, and dual fiber optic gyro-based attitude and heading reference systems (AHRS).

Honeywell has always been leading the avionics industry. Honeywell is a worldwide company that also provides services for homes and buildings.

## Airline industry expects heavy losses for 1992

By Michael Stellawag

*Aeronautics Writer*

In spite of carrying an all-time record 42.8 million passengers during August, the airline industry still expects to lose money during the usually strong third quarter, and post a loss of at least \$1.7 billion for 1992, according to Air Transport Association's (ATA) president Jim Landry.

Speaking to the Society of Travel Agents in Government on September 18th, Landry explained that the airlines are engaged in a life or death struggle to turn around three years of catastrophic losses.

"I have to add that this devastating economic situation has been further compounded by our own federal government, which has burdened the airlines with excessive taxes and regulations at the very time all of us — and the thousands of companies dependent upon us — are struggling for survival."

Landry also said that based on recent remarks by Department of Transportation Secretary Andrew Card that recognized the need for less regulation, he was encouraged that this message might finally be getting through.

Governments the world over have long considered our industry a cash cow.

Perhaps now at least our own government is finally opening the doors of its restrictive regulatory barn, giv-

ing us a chance to move toward green pastures."

Record traffic was posted by the airlines during both July and August, generated by heavy airline discounting.

Landry said the action was taken by carriers attempting to fill millions of empty airline seats with the hope of increasing revenues. "Ultimately, the problem can only really be solved by an upturn in consumer demand. But when the demand isn't there naturally, it can always be stimulated with the right price."

There's a rather large contingent that relishes the outbreak of a fare war — particularly the millions of airline customer, hotels and car rental companies, Landry said. "But for airline financial officers, Wall Street and much of the travel agent community it's quite a different story."

The industry has been forced to retrench by making large layoffs, reducing capital spending plans by more than \$20 billion since 1990 and canceling or delaying delivery of new aircraft and reducing capacity.

Landry said that absent a truly disciplined federal regulatory process, "our industry's long-term prospects are bleak". He called on the government to properly identify problems and issues, and to provide meticulous projections of the costs of proposed regulations. "Any such proposal must pass the test of a reasonable cost/benefit analysis."

## F-18 program to help the economy

*McDonnell Douglas Press Release*

The U.S. Navy's F/A-18E/F development program is helping to infuse one of the nation's most economically distressed areas with training and jobs.

Through the federal Mentor-Protege Pilot Program, the Navy, the state of Illinois and F/A-18 manufacturer McDonnell Douglas are helping a new, minority-owned company set up an aircraft parts metal-finishing factory near East St. Louis, Ill.

River City Metal Finishing Inc., will hire and train its initial cadre of new employees starting around the first of the year.

Employment could build to a peak of about 70 people.

The mentor-protege program is a federal initiative to encourage major Department of Defense contractors to provide developmental assistance to enterprises that qualify as small disadvantaged businesses, or SDBs.

Bill Wilkerson, owner of River City Metal Finishing, says the arrangement is accomplishing exactly what the Congressionally sponsored initiative was designed to do. "This new company serves as an impetus for economic redevelopment in an area that needs it badly," he said.

"With the support of McDonnell Douglas and the Navy, we're forging a national model that will demonstrate how well the mentor-protege concept can work."

River City is converting an old warehouse into a state of the art factory that will meet stringent environmental requirements now and in the future.

In it, both military and commercial aircraft parts will be anodized, grit blasted, surface treated, primed, painted, coated and sealed. River City also will perform non-destructive testing. The new company is expected to generate an estimated \$5 to \$6 million of revenue annually in the East St. Louis area, where unemployment tends to hover at a rate about 50 percent greater than that of metropolitan St. Louis.

With only a few exceptions, all the new employees will be hired from the immediate area. McDonnell Douglas is providing River City with technical, managerial and financial assistance, help with training of employees and certification of technical processes.

This mentor-protege agreement runs for five years.

Michael M. Sears, vice president and F/A-18E/F general manager for McDonnell Aircraft Co., McDonnell Douglas' combat aircraft component and prime contractor for the F/A-18,

notes that the River City effort has required unprecedented cooperation among a variety of groups — the mentor-protege principals themselves as well as individuals with the U.S. Navy and its F/A-18 program office, which arranged \$500,000 in startup funding for the effort; and the state of Illinois, which will assist in hiring and training the new workers.

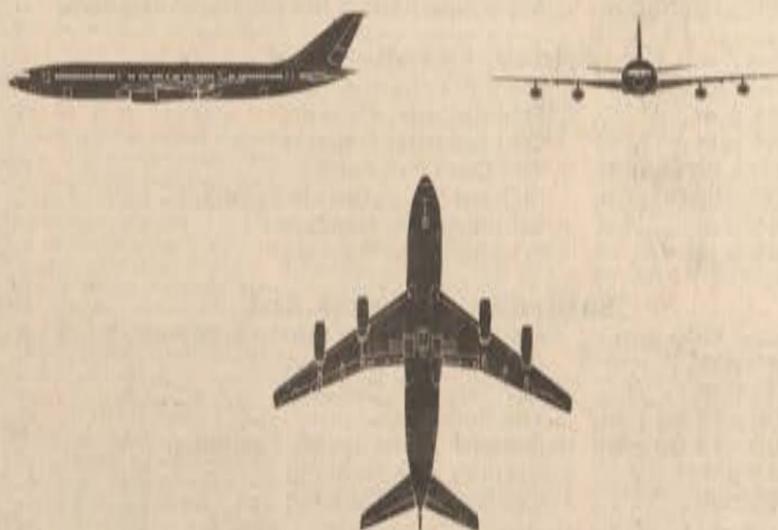
"The stronger we can help make the small disadvantaged business community, the more robust it will grow and the more we'll be able to rely on it for additional products and services," Sears said.

McDonnell Douglas was "the first defense contractor to join the program and one of the few that has been proactive in supporting the spirit of the law," according to the May/June issue of Minority Business Enterprise magazine.

McDonnell Douglas serves as mentor in three of about 10 mentor-protege relationships approved by the Defense Department nationwide, has an approved letter of intent with a fourth protege and is considering several other agreements.

F/A-18E/F engineering and manufacturing development was initially funded by Congress for fiscal year 1992, approved by the Defense Department in May and awarded a letter contract in July.

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# Engine troubles may delay launch

## Crack in main engine of Columbia to be replaced today

By Joshua S. Mussaf  
Space Technology Editor



The Space Shuttle Columbia arrived at launch pad 39-B early Saturday morning. A small crack in an engine nozzle may delay its October launch.

area of main engine number one while Columbia was in the Vehicle Assembly Building. Weld concerns on main engine number one are in a different location than in engine number three and did not require the

removal of the main fuel valve. There are no concerns with main engine number two.

The engine replacement work will be done this week. Possible impacts to the STS-52 launch date, currently

targeted for mid-October are still being assessed.

Columbia will be making its 13th flight carrying an Italian satellite into orbit. The 10 day flight will carry a six person crew.

# Solid rocket booster fails leak test for flight

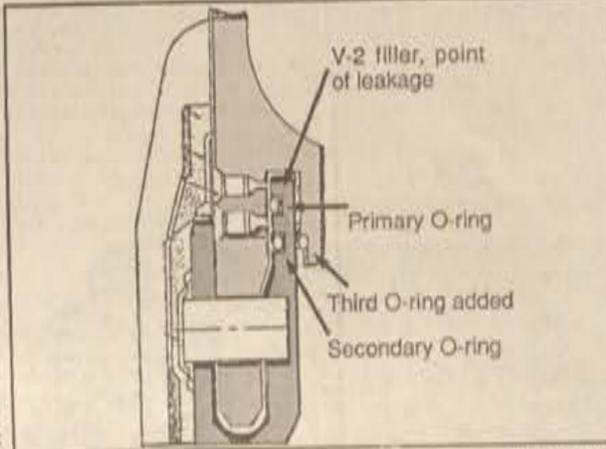
NASA press release

neers have de-stacked the booster segment to inspect the seal and determine the cause of the leak.

When the segment was detached from the right aft center segment on September 23, a one-inch piece of the V-2 filler section was found pinched between the joint preventing it from sealing the joint properly.

Officials have determined that this V-2 filler caused the leak. Further inspection of the three o-rings proved they were intact and undisturbed. No foreign debris or contamination was present in the joint.

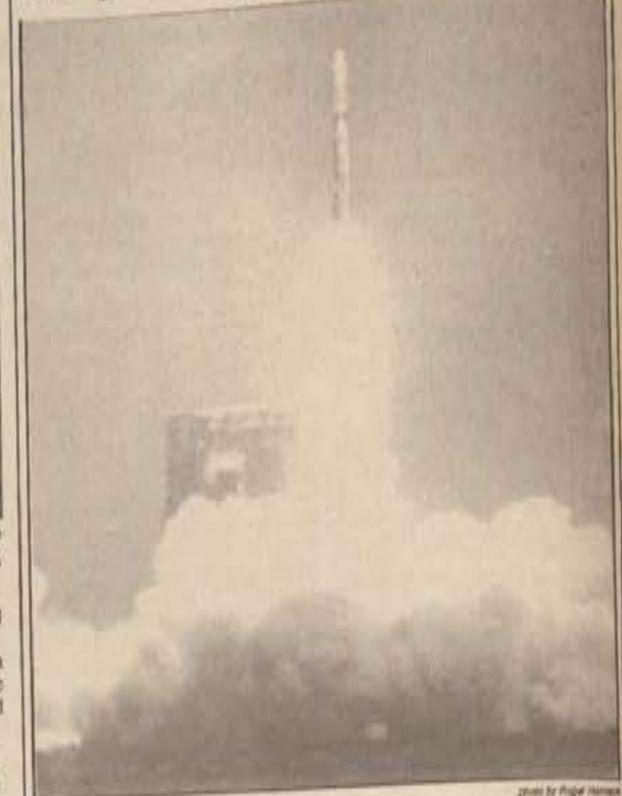
There are 8 sections of the V-2 filler sections that are held in position with grease and are press-fitted into place within the joint. The V-2 filler sections (rubber seals) are



This cross sectional view of a solid rocket booster joint shows the V-2 filler and o-rings where a leak was found.

see Discovery, page B6

# Mars Observer on its way despite problems



A Titan III rocket carrying the Mars Observer was launched at 1:05 p.m. last Friday.

By Joshua S. Mussaf  
Space Technology Editor

The Mars Observer mission got off the ground last Friday and is now on its way to Mars. The Titan III rocket carrying the probe was launched at 1:05 p.m., 38 minutes late because of delays in clearing the launch pad.

Once underway the entire project was in limbo because of a loss of communication with the probe. The upper stage rocket failed to radio its status to ground controllers, leaving communications silent. Ground controllers had expected to know how the probe was doing each step of the way

during the 53 minutes it took to leave Earth's orbit. However, they had to wait 90 minutes until the observer's own radio signal was picked up by a NASA tracking station in Australia.

Engineers are also evaluating potential problems with the high-gain antenna and a sun sensor.

The Mars Observer will be traveling at 39,000 mph for the next 11 months, intersecting Mars next August.

The Mars Observer mission is costing NASA \$903 million: \$511 million for the probe, \$262 million for the Titan rocket and the upper stage rocket and \$130 million for tracking the probe.



## Oceanfront Oktoberfest Musical Entertainment

### Friday, September 25th

- 4:00 - 8:00 p.m. Mark Bouchard & the All Star Polka Band
- 6:45 p.m. Schuhplattler Dancers
- 7:45 p.m. Schuhplattler Dancers
- 8:00 - 12:00 p.m. Nostalgia Music
- 8:00 - 12:00 p.m. Jammin Jeff (Inside Festhaus)
- 8:45 p.m. Schuhplattler Dancers
- 9:45 p.m. Schuhplattler Dancers



### Saturday, September 26th

- 4:00 - 8:00 p.m. The Polka Pals
- 6:45 p.m. Schuhplattler Dancers
- 7:45 p.m. Schuhplattler Dancers
- 8:00 - 12:00 p.m. The Oom Pah Pahs
- 8:45 p.m. Schuhplattler Dancers
- 9:45 p.m. Schuhplattler Dancers



### Sunday, September 27th

- 2:00 - 6:00 p.m. Nostalgia Music
- 6:00 - 10:00 p.m. Mark Bouchard & the All Star Polka Band

### Friday, October 2nd

- 4:00 - 8:00 p.m. Mark Bouchard & the All Star Polka Band
- 6:45 p.m. Schuhplattler Dancers
- 7:45 p.m. Schuhplattler Dancers
- 8:00 - 12:00 p.m. The Oom Pah Pahs
- 8:00 - 12:00 p.m. Richard Smith (Inside Festhaus)
- 8:45 p.m. Schuhplattler Dancers
- 9:45 p.m. Schuhplattler Dancers

### Saturday, October 3rd

- 4:00 - 8:00 p.m. Mark Bouchard & the All Star Polka Band
- 6:45 p.m. German Folk Dancing
- 7:45 p.m. German Folk Dancing
- 8:00 - 12:00 p.m. The Polka Pals
- 8:00 - 12:00 p.m. Richard Smith (Inside Festhaus)
- 8:45 p.m. German Folk Dancing
- 9:45 p.m. German Folk Dancing



### Sunday, October 4th

- 4:00 - 9:00 p.m. The Oom Pah Pahs

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# Sound Blaster Pro is mixed blessing

→ **Hardware Review:** The Soundblaster Pro is an expansion card available for IBM PC compatibles.

By Joe Cambron  
Data Technology Editor

For those who do not already know it, Creative Labs now carries on the legacy of the now bankrupt Adlib company. Adlib, you may recall brought PC sound out of the stone age with its FM synthesis based expansion cards. These sound cards soon became the de facto standard for high quality, affordable PC sound.

As technology marched ahead, however, Adlib chose to sit back and milk its cash cow. Soon, a new product from Creative Labs had pushed the Adlib card from its throne. **Bigger and bolder**

The new Sound Blaster card was born by adding digitized recording and play back to the FM synthesis generator present in Adlib cards. Ironically, Adlib's name will live on as a result of the standard it created for what is now low quality sound. "Adlib compatible" is now stamped across every new sound board coming down the pike, including the Sound Blaster.

The initial Sound Blaster, now known as the 1.0 model, supposedly offered stereo (although it was rarely used and was deleted from later models).

Whatever the case, software developers embraced the new Sound Blaster, and it quickly replaced the Adlib as the standard in PC sound. **Rougher and Tougher**

As time went on, Creative Labs began to see higher end sound cards coming to market. The Pro Audio Spectrum, the Thunder Board, and Adlib's last major product-Adlib Gold-all came out in quick succession.

Meanwhile, however, Creative Labs was working closely with Microsoft over a new standard for Multi-media (the integration of computers, sound, and animation). It was decided that the Sound Blaster Pro would be the model for multimedia sound cards.

The Sound Blaster Pro offers the same features as its earlier incarnation with the addition of higher sam-

pling and play back rates, an in-line mixer, CD-ROM interface, stereo operations both in FM synthesis and digitized sound modes and additional sound inputs.

**Sampling Rates**

The Sound Blaster Pro can sample at up to 44 KHz, which is compact disc quality. This is roughly three and a half times the quality of the regular Sound Blaster. In stereo record mode, however, the Sound Blaster Pro can only sample at 22 KHz per channel. As a frame of reference, the quality of the Sound Blaster is often compared with AM radio, while 22 KHz is closer to FM quality.

Before your dreams turn toward turning your computer into a recording studio, there are two major obstacles to using the Sound Blaster's high sampling rate. At 44 KHz, a one minute recording requires roughly 2.6 megabytes of disk space. Manipulating these samples, changing the speed for instance, is also quite arduous without a Cray Supercomputer.

Also, guess what else is a problem at such a high sampling rate? Most hard drives cannot keep up with the data coming in from the Sound Blaster, leaving gaps in the recording.

Theoretically, this should not happen because even the slowest hard drives operate at 500 kilobytes per second transfer and we are only asking for 44 kilobytes. Apparently, the problem lies in both devices having to share the computer's bus, this must reduce the hard drive data transfer rate tremendously.

**In-line Mixer**

This cute little option is more useful than you might think. It allows volume changes on the fly. In simple form, this manifests itself in being able to turn down your speaker's volume using software instead of a switch, but it has other applications.

*Castle Wolfenstein* (an excellent shareware shoot-'em-up game) is a good example of what this feature can do. With the older Sound Blaster, enemy soldiers would sound as if they were standing next to you when they opened a door two-thousand feet away. With the new Sound Blaster, these sounds become progressively louder until you confront the enemy. Previously, this would

have required sampling a sound at several volume levels requiring too much disk space to be practical.

Sadly, as far as this reviewer can tell, you may not mix different sources while recording digitally. This is what most people believe the mixer accomplishes, but it is really an elaborate volume control. **CD-ROM interface**

Well, its sort of a CD-ROM interface. If you have a Matsushita CD-ROM drive it must be great, but if you have any other brand, you would be just as well off hooking it up to a toothpick and a ball-point pen.

If you want a real interface, buy a Pro-Audio Spectrum. It features a SCSI port that can handle up to eight devices from any manufacturer.

**More sound**

The Sound Blaster Pro features full stereo which is in limited use by software manufacturers, but it is quite useful if you have a CD-ROM player hooked up.

In addition to CD sound, a one-eighth inch jack allows input from any playback device, a second similar jack is intended for use with a microphone, and finally an internal pin connector is available to connect your PC honker (speaker) to the Sound Blaster Pro.

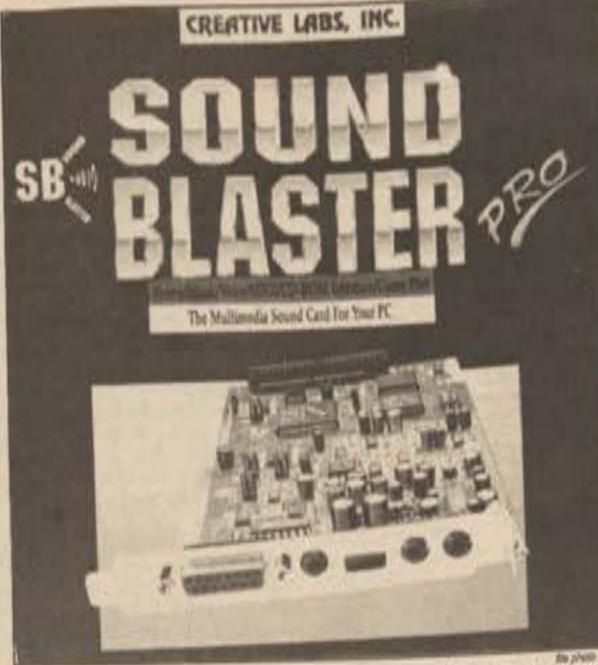
**Troubles**

Well, the Sound Blaster Pro does have its share of drawbacks. A large warning advises owners "DO NOT ATTEMPT TO FIX CONNECTION YOURSELF" in reference to attaching the PC speaker cable to the Sound Blaster Pro.

This is despite the fact that the cable's five volts is probably not enough to electrocute a butterfly. Assuming you do learn how to connect the speaker cable against Creative Labs better judgment, you will find its hooks deafening (they don't sound much better, but they certainly are louder). Sadly, the much hailed mixer does not seem to alter these tones.

The next problem concerns the setup of the card. Like the Sound Blaster, the Sound Blaster Pro uses IRQ 7 as its default Interrupt Request Channel.

As you may know, almost every printer hooked up to a PC in America today also uses IRQ 7. Can you say "conflict?" Strangely



Sound Blaster Pro suffers from problems, but meets most expectations.

enough, this was never a problem with the old Sound Blaster, but now your ears can be treated to endless static and "reverb" if you use an HP compatible printer. Playing with the setting on the card can remedy this problem, but it will not be a fun experience.

Is there more, you say? Well, how about that nice CD-ROM audio input. Complete control of your CD-ROM sound and no more double sets of speakers (two for the CD-ROM and two for the sound card), NOT. Guess what Creative Labs did to encourage you to buy one of their specially high priced Matsushita drives?

They reversed the four wires so that almost every CD-ROM player except the Matsushita falls silent when plugged into the Sound Blaster Pro. With some pliers, a pocket knife, some electrical tape and a wire crimper this problem can be remedied, but you should not have to bother.

There is still more. If you own a MIDI (a computerized piano type keyboard with a special connector) keyboard, you may be salivating over the chance to plug that into

your new Sound Blaster Pro, well guess again. At least the cable fits, but due to some bizarre interpretations of the MIDI standards by Creative Labs and Microsoft; it is quite likely that a song you create using trumpets, piano, and drums may mutate into a pan flute, a tuba, and a harmonica for percussion.

**Should you buy it?**

It really depends upon your situation as to whether this is the right sound card for you. If you do not mind getting your hands a little dirty splicing cables and such, then most of these problems can be easily solved, but if you are the kind of person who must have an adapter for every incorrectly fitting plug forget it.

If you are looking for a high-end CD-ROM and sound card, then the Matsushita/Sound Blaster Pro Combo is a reasonable choice.

If you do not own a CD-ROM player and do not want to be tied to one CD-ROM maker, then the Pro Audio Spectrum and its SCSI expansion bus is an excellent alternative.

The Sound Blaster Pro is available at Sam's Wholesale for \$184 with the optional MIDI kit.

# Is it really Out of This World?

→ **Software Review:** *Out of This World* is available for the IBM from Interplay.

By Joe Cambron  
Data Technology Editor

*Out of This World* is a new game from Interplay. It is hailed as a revolutionary, "virtual reality" game by its makers. While short of virtual reality, the game is quite different than most other modern adventure games.

**Game play**

Viewers are treated to an explanatory film to kick off the game. This film describes your character's plight in animated form. As the film begins, a young scientist is arriving at work in his sports car.

Sitting at a large console, the scientist runs a simulation of a nuclear experiment. After reviewing the outcome, the scientist activates the equipment and begins a real test.

Outside, however, a strong storm is brewing and lightning is striking frequently.

At a critical point in the experiment, the lightning disrupts the test causing a malfunction that sends your character *Out of This World*.

The game is very action oriented. Immediately after being deposited in your new surroundings, you must decide how to save yourself from drowning.

This dilemma is only the first of many, and all of them are solved using the arrow keys and the space bar. These simplistic controls cause the game to require a great deal of manual dexterity.

Running, skipping, rolling, jumping, crouching, firing, and other motions are all possible using these five keys.

**Requirements**

The game requires just a couple of megabytes of disk space, despite its extensive nature. A Sound Blaster is not required, but adds immensely to the game.

see World, page B5

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**AHP**

By Jason Piper

Well another busy week has gone by. Everyone is still doing fine. I can't say the same thing for my fish though. I know now they are definitely brain damaged. They swim into the side of the tank and bash their heads into the glass; guess they like the buzz.

We are pleased to announce that we have extended 16 bids for the fall '92 semester.

**ΔX**

By Boyd Kelly

Well, of course, I can only start off in the beginning. This is it.

Shelly asked me not to rag on the Alpha Xi Delta's, but I don't know if I can leave it alone.

I had completely ruined the whole thing and everybody was pretty happy.

Well, everybody except Jacki. She called and gave me their sob story for fifteen minutes and I fell for it. Now everyone is upset with me. She did promise a better social next time, but if the decree handed down by our exalted Lafonte sticks, there won't be a next time!

Lucky for us *The Ren & Stimpy Show* is on each week on Saturday night at 9.

On a lighter note (again Bullwinkle). Sigma Chi pulled through for some of us and using the combined efforts of two struggling parties, the evening turned out better than bad, it was good!

**Aerospace Society**

By Joshua Mussat

The Embry-Riddle Aerospace Society will be having its next meeting tonight at 7:30 p.m. in room E-611. Tonight's guest speaker will be Dr. Fleck. He will be talking to us about the wonders of astronomy. Hopefully, we will be able to view the nighttime sky including the Moon and Saturn and its rings. Special thanks to Stephanie and Alicia of the Speaker's Bureau for the informative speech on *Space Station Freedom* last week. Upcoming events include a

Our football season has started with great success. We had a great victory against the vets club this past Sunday. The defense did a great job. The final score was 24 to 8. I'd like to thank Sam Greco for putting in all the time to whip the team into shape. It's a thankless job. So, keep showing up to practice and working hard, and we'll keep the winning streak going.

Congratulations to Jason M. for receiving his instrument rating. Happy Birthday to Jim Pawson, Sam Newberry and Myself.

Friday's party left the girls wet and the house water-logged. We expect to have it dry by this time next year, it kinda made the sponge seem like a real minor incident.

It's amazing that the water bill is always so high. Not to mention the all too familiar cry of the night, "Wait, I'm not here with them!" (as a five gallon bucket of water crashes over her head).

Kudos to Dad for trying to stop the world's biggest water pistol fight in history. It really is like trying to stop a riot.

To our pledges, I welcome you and commend you on your cleaning and creativity. You did an excellent job of decorating the house for the Alpha Xi Delta's party. I'm sorry they couldn't show up to appreciate it.

Speaking of pledges, there is a weight-oriented competition going on that you should be in on. Check with Brother Stoffler for details.

So brings close another article and another month. Lets hear it for October!

trip to Wet 'n Wild in Orlando on Saturday, October 3. The special reduced club cost will be \$13.40. Please pay Alicia tonight if you wish to go with us. Our trip to the Kennedy Space Center has been rescheduled to Saturday October 24, so mark your calendar. The exact cost of the trip has yet to be determined, but I'm sure it will be a bargain! So, Alicia is still collecting dues. The cost is just \$5 per semester or \$9 for the school year. Money is also being collected for club *ushers* during the next two weeks. The cost will be \$6.00.

**AAS**

By Nicole L. Malloy

On September 19, 1992, The Arnold Air Society participated in the Adopt-a-Highway program. The members started clearing the roadside of trash and debris early in the morning about 9:00 and was completed at 11:00.

The Society participates in this to improve the community for everyone to enjoy. The society cleared Volusia Ave. of all sorts of trash ranging from paper cups to car parts. Starting at the intersection of Volusia Ave. and Clyde Morris, the members cleaned all the Way down to the intersection of Volusia Ave. and Bill France Drive. Turn out for

**ΣΠ**

By Jay Wayne

Congratulations to our new pledges. I hope we have all recovered from the ceremonies and events over the weekend.

Including the visit from the couch potato and our long lost Halifax House Maid. We must now look for

the event was promising. The members that participated were: Rhonda Brown, Tora Gore, Thomas Hansen, Blake Jeffries, John Morales, Arnold Rodriguez, Chris Scarborough, Kelly Spiers, and Dave Tenenbaum.

Arnold Air Society participates in the Adopt-a-Highway program once a month. Participating in the Adopt-a-Highway program is one of the many ways the Society gives back to the community.

The whole purpose of Arnold Air Society is to serve the community, Air Force ROTC, and Embry-Riddle Aeronautical University. Through Adopt-a-Highway and other programs Arnold Air Society continues to serve the community throughout the upcoming school year.

ward with great anticipation to Greek Week when our Top Secret, High Tech Chariot will debut. I believe House will be our chariot rider, correct?

Anyway, I hope we can all learn from Greek Week in the past; TOGA! Let's all just have fun. One last note. Deadhead: To return without a full load, or, one who acts as a Deadhead.

**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.

**Ninety Nines**

By Jennifer L. Warren

Get ready for a great semester! The Ninety Nines are back and going stronger than ever, thanks to the abundant interest of both our continuing and new members. We have a new executive board consisting of:

President - Theresa Powell

Vice President - Evening Dupre  
Secretary - Melissa Washburn  
Treasurer - Jennifer Warren

We are all looking forward to the trip to McDill Air Force Base, New Smyrna Airstow, and the booth with all those trick-or-treaters on Halloween at Castle Adventure. Our next meeting will be on October 7th in the library, room 157. New members are always welcome, so come by and see what we're all about!

The Space Shuttle *Challenger* was destroyed with its seven person crew on January 28, 1986 when flames from one of the solid rocket boosters burned through two o-rings, causing a catastrophic explosion.

The STS-53 mission is currently targeted for a mid-November launch. Impact of the destacking activities on the launch are still being assessed. *Discovery's* 15th flight will be carrying a department of defense payload into orbit. *Discovery* has been undergoing inspections and modifications since it last flew in January.

seals, and between the capture feature and primary seals. These follow on checks are performed only after passing the initial leak check. Successful completion of the leak check procedures provides the final assurance that the assembled booster fully meets seal requirements.

NASA redesigned the joints between the booster's four fuel segments, adding a third o-ring and a rubber seal to each joint after the *Challenger* accident. NASA also created a leak test that is 13 times stricter than the pre-*Challenger* test. Official said the leak found last week would never have been detected using the pre-*Challenger* test.

The game obviously does not offer motion or outside stimulus so it does not truly qualify as a virtual reality effort, but despite this the game meets almost every expectation. It is in a different league than almost every other adventure game, and really seems more akin to an action arcade game. The animated, sixteen color graphics are similar to *Leisure Suit Larry*, but offer an action format that supersedes that Sierra game.

bly process in stacking the boosters for flight. This was the first leak discovered during an o-ring test since shuttle flights resumed in September 1988.

The test includes imposing high-pressure nitrogen gas at 1,000 psi, about the same pressure produced during flight, between the secondary and primary o-ring seals.

Engineers monitor for any pressure increases between the capture feature seal and the primary. If any changes in pressure are noted during this test, the primary seal is suspect and fails the test. Leak checks are also performed at lower pressures, between the secondary and primary

reloading the game after completing a difficult section task.

Happily, only saving is not possible. Loading is accomplished in a similar fashion to the game *Lemmings*. When you reach certain points, a four letter code is displayed which can be used to load the game to that point. The codes are infrequent, though, and still force a player to replay portions of the game endlessly to complete a level. Overall

**OAK**

By Lisa Combs

Omicron Delta Kappa is currently accepting applications for membership. A reception will be held on Thursday October 1, 1992 at 7:00 p.m. in the Student Center Conference Room. ODK student and Faculty members will be there to answer any of your questions. Eligibility requirements and the applications process will be discussed. Applications are available in

the Student Activities ODK box and are due no later than 4:00 p.m. Friday October 9, 1992.

ATTENTION ALL VOLLEYBALL Players, a practice will be held on Sunday the 27th at 5:00 p.m. on the ERAU volleyball courts. All members are invited! The First two games went well considering our experience (we got demolished). But we have a lot more games to play so get involved and help us practice.

Don't forget ODK Movie Night will be this Friday. Contact Carlos for any questions. Thank You!

**Rugby Club**

By Brandon Denzor

The Embry-Riddle Rugby Club lost a hard-fought match against the University of Florida Gators Saturday by a score of 12 to 17. Scoring for Riddle were Mason Thompson, center, with a 20 yard run, and Tony Potter, forward, with a goal-line leap. The Riddle team attacked strongly during the later portion of the first half, gaining solid ground, only to be halted by a replacement team brought on for the second half. Embry-Riddle's record now stands at 1 - 1 - 1.

The Daytona Beach Rugby Club played a competitive match leaving the host team Gainesville pondering a 19 to 8 defeat. Jeff Puger, prop, Rob Fergus, wing, and Mike Duprie, center, all scored under the neutral scrutiny of the official. John Jupin followed with 2 conversions. DBRC's record is now 3 and 0 and the team is well on its way to the state tournament.

Both teams will play at home Saturday, October 3, against Tampa Bay. Come out and see some great action and some outstanding calls; all under the glistening moon of a rookie. Now, a moment of silence for the forwards.

**SCAT**

Special To The Avion

Welcome to SCAT CHAT. The Society of Commercial Aviation Technicians held it's first meeting Thursday, Sept. 10th, to standing room only.

The first meeting consisted of registration for new and returning members, a survey to determine possible destinations for field trips, and election of officers.

The preliminary roster totaled 72 members with late sign-ups still taking place.

A survey was handed out with 6 possible destinations for field trips. We'll keep you posted when we find out exact dates and times. By the time this article goes to print we should have it narrowed down.

Open elections were held to fill the President's position which became available when former

President Mark Cooper graduated this summer.

Congratulations to Gene Zastera the new SCAT President moving from the Public Relations spot and to David Bunin who now holds the Public Relations office.

he next upcoming event will be the SCAT picnic. During the meeting we took a vote to have it on Saturday, Oct. 3rd or Sunday, Oct. 4th. The 3rd was decided at the meeting, but we've discovered it conflicts with the Ski Club's activities on Saturday and the planned use of the Ski-boat.

Therefore, the picnic date has been changed to Sunday, October 4th at Lake Ashby. You should find a memo with directions and the exact time for the picnic.

For those of you still pondering, it's not too late to sign up. Stop by Mr. Newberry's office during office hours or track down an officer for details.

**Discovery**

(continued from page B2)

about four feet long, about a half inch wide and "U" shaped.

Potential causes for leaks could include debris, contamination or improper seating of the o-ring. Cleanliness and contamination control precautions are emphasized during the assembly procedure and have been effective for the previous 150 field joint assemblies for the 25 flights of the redesigned solid rocket motors.

The leak check is performed on all field joints as part of the assem-

**World**

(continued from page B4)

A joystick is also optional, but game play is not hindered without one.

Saving/loading

This game is probably the only adventure that does not allow the game player to save games. This is a mixed blessing. This results in enormous frustration at times, but prevents players from saving and

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1983 Toyota Tercel, good condition, \$1000. Call 274-2801.

1982 Chevete, good running condition, clean interior, new tires, asking \$650 O.B.O. Call 248-2576 after 5:30 pm.

For Sale: 1979 Pontiac Gran Prix! Needs some engine work. \$300 OBO, 788-7240.

1990 red Nissan 240SX, complete ground effect w/spoiler, Sony CD and HQ, Posgate 10" X2 enclosure, Posgate Punch 45" X2, Sony 4 X 5 speakers, Momo steering wheel and shift, MSW rims, Kenwood alarm system, make best offer, serious inquiries only. Call Tom 274-4885.

1986 Nissan Sentra, 5 spd., A/C, P/S, looks and drives great, must sell \$2900. Call 253-4423.

1983 Suzuki GS550L, less than 8,000 miles, new brakes, mount time up, cheap transportation. A steal at \$825. Call 788-4972 leave message if no answer.

## Roommates

Female wanted to share large house in Port Orange, \$250 and 1/2 utilities. Call Doug 767-3383.

Port Orange female needs roommate, master bedroom with private entrance, private bath, A/C, washer, dryer, built in pool, fireplace, screened porch, large yard, huge kitchen, cable, the works. \$350 includes all. Call 760-4677.

Roommate needed, female preferred, big beautiful home, all new in and out, 2 bedrooms available, \$200 and \$250 month plus 1/4 utilities, washer and dryer, cable, 2 car garage. Call 238-2535.

Roommate wanted male or female, share 2 bedroom apartment, fully furnished except your bedroom, 1 bath, A/C, heat, DW, cable, garbage disposal, 5 miles from campus, \$250 covers rent and bills. Call 761-9882, leave message for Mark.

House to share, quiet Port Orange neighborhood, 3 bedroom, 2 bath, fully furnished, micro, cable, washer, dryer, 10 min. to school, \$235 per month, 1/3 utilities. Call Paul 756-0419 or 788-8870.

## Misc. for sale

AMPEX VAB head and SVT 8 speaker cabinet, \$400. Call (904) 441-1706.

Sig P226 9mm semi-auto, k-kote, tritium night sights, two fifteen round magazines, 6 months old, still in the box. \$550 O.B.O. Call 760-9934.

386 DX 25 Mhz, 1.44 and 1.2 F.D., 40 meg HD, 1024X768 VGA, 4 meg ram, Dos 5.0, IP, 2S, IGP, keyboard etc. \$1200 O.B.O. 257-2472 or box 6736.

Realistic Pro 2004 300 channel programmable scanner, aircraft, weather, military, civil, etc. \$450 new, best offer, call 253-0488.

Exercise bicycle, good condition, \$25 O.B.O. Call 756-7557.

Clarion 720 graphic equalizer, cross over, sub-output, and level controls, 7-band surround-sound and time delay circuits. \$115. Contact Fred at 322-2710 or box 7272.

Leather flight jacket size 38R, \$150 new, best offer. Call 253-0488.

Queen size waterbed and sheets for \$100. Call 788-1214.

.22 Smith and Wesson model 422. Blue Finish, 6 inch Barrel, extra 10 round clips, and case. \$200 contact Shawn at box 1112 or call 760-3166.

Hide a bed couch, good/fair condition \$15. Contact Chris 761-9882.

Queenize waterbed, padded rails, semi-waveless mattress, heater etc. great condition \$150 OBO, deak \$25, bookcase \$25. Call Jonathan 788-7240.

Guns wanted. Buying all types. Call Kurt 274-2083.

Weider # B-420 weight bench and weights. Like new, rarely used. \$75.00. OBO. Call 761-9384.

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## Personals

LAURA LOPRETT(?) If that is your name, I've been looking for you. I haven't seen you since you walked through the door at the circulation desk in the library. I didn't expect my friends to bother you in the computer lab either. If you're still interested, let's get together! You can find me in the Avion office. JAYCE

TO THE TEXAS BLONDE! It would be great if you came back, but I might not be here when you get back. STUDLESS

KATI! How can I express it?... How can I show it?... Although you know how much I love you, I just wish I could express it. I hope you are a blessing for the rest of my life. I'll love you always. In His Love, Pete

Whoever hit the grey Nissan 240 the week of 9/14 - Please call 258-0935. INS. will not cover. No Questions.

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JENNIFER AND SASHA Liquor before beer, never fear. Beer before liquor, never sicker. You proved this theory to the fullest. Even with all the excitement you still seem like fun girls. If you would like an evening to remember, reply in the personals. THE DRIVERS P. S. Did you forget anything?

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- 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.
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## Miscellaneous

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## Notices

### Jogging Club looking for new members

The Daytona Beach Hash House Harriers is NOT a running club that socializes, but a social club that runs. Experience a different way to see Daytona and its surroundings. Previously we have run nature trails in New Smyrna, Ponce Inlet and Flagler. We have even run through the Volusia Mall, tropical forests throughout the county, beaches, the jungle and rivers of Tomoka State Park. We have also run along the Boardwalk, the balconies of the Marriot, and just about anywhere you won't see typical joggers.

### What is a hash?

Hashing involves following a scenic trail marked in piles of flour and chalk arrows leading to an unknown ending location which is noted by the sight of a beer keg. Hashing is strictly non-competitive and very social. Short-cutting is not only allowed - but encouraged! Runners, joggers and walkers are welcome!

The trail is designed to keep everyone together regardless of individual pace by the use of false trails, loops, and beer/water stops. Join the fastest spreading club in the world - there are now "hashes" established in over 125 countries since its beginnings in the Far East in 1938.

There are hashes every week alternating between Saturday evenings and Monday evenings

somewhere unique in the Daytona Beach and surrounding area. On Saturday evenings, hashers get together at a local bar/restaurant after the keg is drained. On Monday evenings, the hashes are shorter and food as well as refreshments and beer is available.

### UPCOMING SCHEDULE

- (No need to arrive earlier than listed times)
- Call Jody Burch 226-6830 (wk), 239-0357(hm) or Mark Acton 788-7185 (hm) 257-150 (wk)
- Monday, October 5th - 6:00 - Place will be announced
- Saturday, October 10th - 3:00 - Place will be announced

### International Day coming

The office of the International Student Services at Embry-Riddle Aeronautical University invites you to attend the annual "International Day" hosted by international students representing 81 countries from around the world on Saturday, October 24th, from 1:00 p.m. - 5:00 p.m. in the John Paul Riddle Center on campus. Admission: \$1 donation to International Student Scholarship Fund. Children under 12 are admitted free.

International students will share the tradition and customs of their cultures with a sale of ethnic foods displays of cultural artifacts, and

provide a program of entertainment. Don't miss an opportunity to broaden your horizons and enjoy an International Day!

### UCF finishes experiments at ERAU

The University of Central Florida's Team Performance Lab is pleased to announce that its summer-long flight experiment at ERAU has been completed. The purpose of this experiment was to investigate the effects of increasing workloads vs. consistent workload on the development of crew coordination behaviors. Twenty IFR rated pilots

comprising 10 two-person crews were required to complete questionnaire's regarding the workload levels of each flight. All flights were completed on a commercially available PC-based flight simulator. The data collected from this project are currently being analyzed.

The UCF Team Performed Lab would like to thank all the pilots who participated in the experiment, as well as the entire staff of the Airway Science Department at ERAU for their generous assistance in the recruiting and scheduling of pilots for the experiment. In particular, Dr. Connolly, Julie Larcher, Lori Morsi, and Scott Spaulding went well beyond the call of duty to help our staff out. Thanks again to everyone who made this experiment possible!

# Alien<sup>3</sup>

Tomorrow at 8:30 in the Student Center

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