

2-7-1990

## Avion 1990-02-07 (B)

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## Aeronautica

# B

Volume 64, Issue 3

February 7, 1990

### Air Force retires SR-71 and denies "Aurora" Project



a mere two years later, it had went from blueprints to a first operating prototype.

On December 22, 1964, the SR-71, flown by test pilot Bob Gilliland, made its first flight. The aircraft proved to be everything Johnson said it would be.

When Lockheed celebrated the twenty-fifth anniversary of the SR-71's first flight, last December, they asked retired designer Clarence Johnson if he was interested in viewing the aircraft before it would be retired. He willingly answered with a "You Betcha!" Johnson attended the ceremony even though he was in ill-health.

The SR-71 was, and still is a milestone achievement in the ever growing field of aviation. Many wonder why the government would rid itself of such a prize possession, and the only logical explanation would be a possible replacement which would have to be far more advanced than the SR-71.

In the past six months there have been many reports of an experimental Air Force aircraft conducting flights over the Mojave Desert. The aircraft, known only as the "Aurora" would be the only sound reason for the early retirement of the Lockheed SR-71.

**Project Aurora**

The Aurora is believed to be a hypersonic, unmanned reconnaissance aircraft, capable of speeds between

MACH 5 to MACH 7. Observers have heard distinct sounds of this high altitude, high speed aircraft flying over the Mojave Desert region. It is said to emit a high pulsating sound from its engines, and believed to leave sausage ring shaped exhaust.

*The Aurora is believed to be a hypersonic, unmanned reconnaissance aircraft, capable of speeds between MACH 5 to MACH 7. Observers have heard distinct sounds of it flying over the Mojave Desert.*

If the Aurora exists, it may be at least another decade until the Air Force acknowledges its existence. This highly secretive "Black" program may follow in the foot steps of the F-117A project, which had fifty-seven operational aircraft that were combat capable, six years before its existence was acknowledged to the public.

If the Aurora exists, can its technology be transferred in order to help programs such as the National Aerospace Plane? And will future Air Force aircraft begin to be constructed for unmanned crews?

It will be quite awhile before we have solid answers to these questions. While government "Black" programs help us achieve great things in short periods of time, it makes the public question just how far advanced are we.

As one Lockheed spectator said, viewing the last fly by of an SR-71 at the Lockheed facilities, "Other planes are just planes...this one is special." And even if we move on, with technological advances and achievements, the SR-71 will always be remembered and admired by all.

**The old...**

The SR-71 has been the staple of the USAF's manned reconnaissance program since it was developed in the early 1960's by Lockheed. It was retired late last month.

by Peter E. Miller  
Aeronautica Writer

After twenty-five years of service, the Lockheed SR-71 reconnaissance aircraft wing of the United States Air Force is being terminated. The SR-71, which was the first operational aircraft able to cruise at MACH 3 and maintain a record altitude of over 80,000 feet, played a vital role in our nation's strategic reconnaissance capability.

The SR-71 has seen duty in all parts of the globe, from the Soviet Union to the Persian Gulf. It has proven itself time after time, fast, efficient, reliable and accurate.

Now, in the wake of mass criticism by both the general public and many government officials, the SR-71 program is being mothballed. The main question posed by all is simply "Why?". The SR-71 is by far one of the greatest aircraft ever built in the entire history of aviation, and one of the Air Force's greatest assets.

The SR-71, with its reliable reconnaissance data, had proven to be vital not only to the Air Force, but also to the Central Intelligence Agency (C.I.A.), the United States Navy, and even the president of the United States.

With the SR-71's record breaking speeds, the aircraft can leave from a designated base in the United States, go as far as the Middle East, photograph an area of over 100,000 square miles, and return safely. All within a mere

twelve hours.

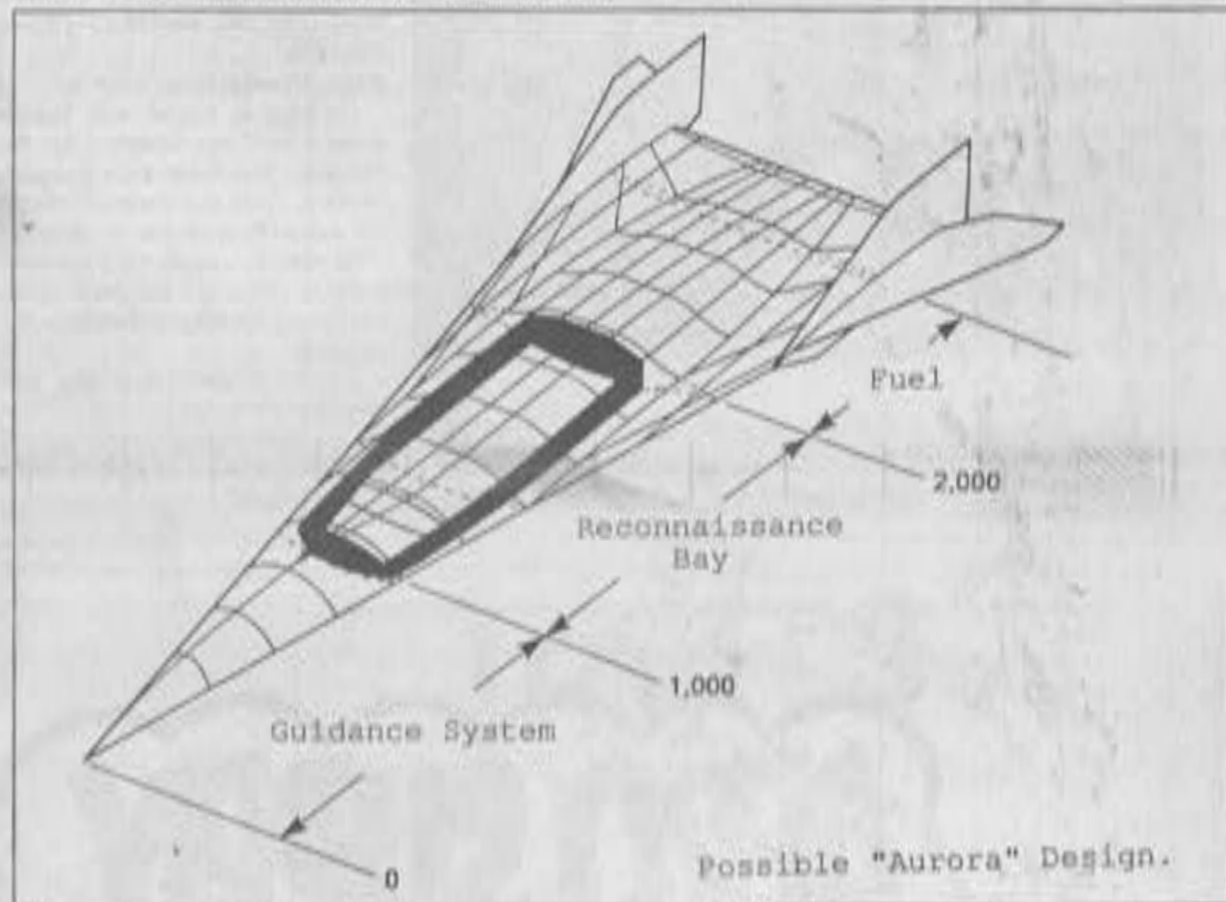
**Blackbird History**

The SR-71 program began in 1958. At that time, Lockheed realized that Soviet advances in radar and surface-to-air missile capabilities would soon make the U-2 spy plane vulnerable to attack. Lockheed's Clarence "Kelly" Johnson, was one of the companies most valued engineers. Having designed the P-80 Shooting star, which was the first production line jet fighter, and developing the world renowned "Skunk Works" facilities, he accepted the task. Johnson proposed to the Air Force and the Central Intelligence Agency, an aircraft that would be able to maintain speeds at MACH 3 and heights over 80,000 feet.

In 1960 the proposal was accepted and the A-12 program began. The A-12 program, with the help of Johnson's brilliant mind, would soon develop into the SR-71. The program faced many difficulties at the time. The technology to be used in the construction of the SR-71, and all of its pertaining parts, had to be developed from scratch.

It was decided that the aircraft entire fuselage would be constructed with titanium - a heat resistant metal strong as steel, but light as aluminum. This project lead to many advancements in Titanium technology for future aircraft.

The SR-71 proceed with many technical difficulties, but



**The new...**

If the Aurora Project exists, which the Air Force denies, it will make reconnaissance over battlefields and hostile land less risky for crews.

### Boeing 747 turns twenty

by Ron Young  
Aeronautica Writer

Boeing's most remarkable and recognizable civil aircraft, the giant B-747 jetliner, recently celebrated its third decade of airline service to the world. On January 21, 1970, the first commercial flight of the Boeing 747 took off carrying 352 passengers and crew from New York to London on a Pan American World Airways flight. Today, nearly one billion passengers have been carried by B-747s over the past 20 years.

Boeing's big jetliner is a familiar sight at all major airports around the world. To date, 966 of the "jumbos" have been ordered by both military and airline operators around the world. As of this year 756 aircraft have been delivered. Only 20 of these are no longer operational. The remaining 736 in service, with 70 operators carry the majority of all worldwide passengers on overseas routes.

Overall, 16 versions of the 747 have

been sold, including two military types. Some of the versions are configured to carry passengers, some for cargo and some for a combination of the two. The most recent model is the 747-400, distinguishable by its tipped up winglets.

The worlds 747s have logged 27.5 million flight hours and have flown 13.9 billion miles, equivalent to over 3000 flights to and from the moon. They fly 3.7 million miles per day, or 148 times around the world.

The durability and economics of the 747 concept have been well tested and proven, and versions of the 747 airplanes will continue to provide service well into the 21st century. Boeing's willingness to explore new concepts and technologies towards the 747 insure the companies attitude toward future development of the airliner.

Whatever the outcome, it seems clear the Boeing 747 will be around for quite a long time.



**Still flying after all these years....**

On January 21 of this year the mighty Boeing 747 first flew in Pan American World Airways service. Since then, 966 747s have been ordered in 16 different versions, by both the military and airlines.

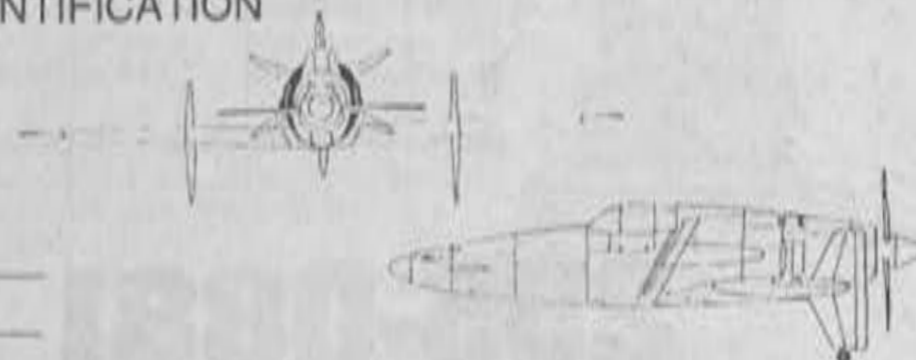
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# NASA plans astronomical year of activity

## Agency will observe Earth, its neighbors, and beyond the stars

by Kevin G. Stewart  
Space Technology Writer

National Aeronautics and Space Administration's goal for the space program is to eventually have one successful Shuttle mission per month, and, even though they haven't quite reached that ambition yet, they still certainly have many fascinating Shuttle and non-shuttle missions to look forward to in the year 1990. Included in this list of events are Galileo, the Hubble Space Telescope, and the ROSAT. The first of which is already in space, the second is a soon-to-be shuttle mission, and the third is a planned unmanned rocket launch. LDEF retrieved and studied

January's mission for *Columbia* was to recover the Long-Duration Exposure Facility (LDEF) and deploy a communications satellite. Several experiments lie in trays on LDEF monitoring space particles originating at the sun and measuring particles which are trapped in the Earth's magnetic field. Materials such as epoxy composites, reflective coatings, and optical fibers were also studied over the years. NASA had initially planned to retrieve the craft in 1985, but due to the loss of the Space Shuttle *Challenger* and its crew, NASA postponed all future shuttle missions for 32 months. Some experiments may have been damaged because of the extended time in orbit, however, most have greatly increased in value. **Galileo to pass Venus**

The spacecraft Galileo which was launched last October on a route to Jupiter, will flyby Venus February 9. Galileo will probe Venus by taking pictures of its clouds, monitoring the activity of the sun, and measuring charged particles in the interplanetary magnetic field. However, since the craft will be so near the sun, Galileo will have to wait until it passes the Earth again in December in order to transmit the data received from Venus. The antenna used to relay this information remains hidden from the sun's heat until the transfer occurs. Scheduled for February 22, is the launch of *Atlantis* on a mission dedicated to the Department of Defense (DOD). This launch is to have the highest degree of inclination of any previous flight paths. The East coast will have an excellent vantage point to view the launch. **Hubble will peer into space**

This is the very mission that many have been waiting for. On April 18, the Hubble Space Telescope with its \$2 billion price tag is scheduled for launch inside the cargo bay of the space shuttle *Discovery*. The satellite was originally scheduled for launch in 1983 and was initially designed in 1971. Despite the fear of the 70's technology failing, scientists are hopeful that the updated telescope will prove to be worth its weight in gold. Last December, a Wide-field Planetary camera was attached to Hubble in order to obtain a greater picture of the universe, to give better clarity to images of brighter stars, and to detect ultraviolet rays that do not normally penetrate the Earth's atmosphere. Scientists also hope to view such phenomena as black holes, faint stars, and the nuclei of young galaxies. **Astro to view from Shuttle**



**Awaiting...**  
Dr. Millie Hughes-Fulford is training for the August launch of the Space Life Sciences laboratory to be carried into space aboard the orbiter *Columbia*. She is on the Embry Riddle Board of Trustees.



**Mapping...**  
The Magellan spacecraft will reach Venus this year and begin mapping the planet with its radar imaging system. After obtaining the data, it will be transmitted back.

On August 29, NASA plans to launch the Space Shuttle *Columbia*. *Columbia* will carry an orbiting laboratory, Space Life Sciences-1, which will be used to determine how space effects the human body. The seven-member crew will include three physicians and a physiologist. **Ulysses to study the Sun**

In October, NASA has plans to launch a satellite toward Jupiter. The *Ulysses* will head toward Jupiter and then use Jupiter's magnetic field to sling-shot the craft back toward the sun. Once it reaches the sun, it will monitor the sun's southern Pole and then swoop around the sun in order to monitor its northern pole. The launch date is currently scheduled for October 5. The Gamma Ray Observatory, which is designed with rocket boosters that can keep the craft in orbit for as long as ten years, will be launched on November 1. The Space Shuttle *Atlantis* will transport the observatory to its orbital destination. Finally, in December, as mentioned earlier, the data retrieved from Venus by Galileo will be down-linked to computers here on Earth as it passes on its way to Jupiter. Galileo is scheduled to reach Jupiter in the year 1995. **Microgravity science lab**

Also a project with a number of subdivisions, the International Microgravity Laboratory (IML) will have a series of launches in order to study materials and life sciences in a reduced gravity environment. The first launch is scheduled for December 12. Other launches are scheduled at 17 to 25 month intervals. The year 1990 should prove to be a major stepping stone for NASA and their vision of continuous shuttle launches. NASA plans to allow the Floridian government and industry to benefit at a faster pace from the space technology received over the coming years. Some of these spin-offs might include: stress-free running shoes, anti-ultraviolet ray sunglasses, and better insulation for homes. Very soon, we can expect NASA to lay the foundation for the Space Station *Freedom* and possibly a lunar base. Next thing you know, man will go to Mars. The Space Station is planned to utilize international cooperation and may form the basis for a joint venture to the red planet.

**Very soon, we can expect NASA to lay the foundation for the Space Station and possibly a lunar base. Next thing you know, man will go to Mars.**



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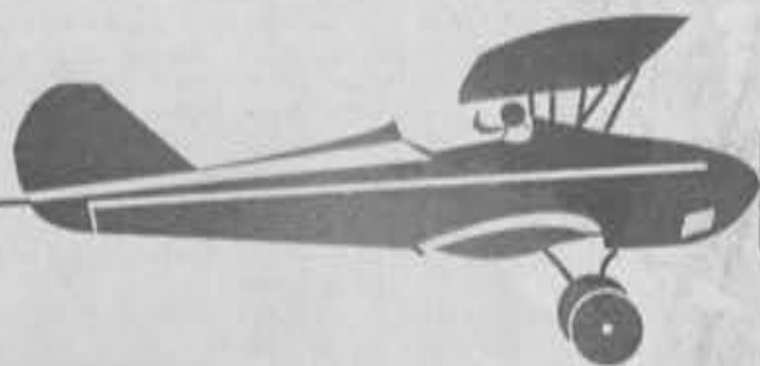
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## Booster delays Hubble lift off

by Marianne Michaels  
Space Technology Writer

The launch of STS-31 and the Hubble Space Telescope has slipped from early April to the later part of the month. The reason for the delay was because the aft solid motor segment and the nozzle of the right solid rocket booster seemed to have not been properly checked for leaks at Morton Thiokol.

According to NASA spokesperson Lisa Malone, the current date is April 18 and the problem has not caused any concern over meeting this date.

Inside the Vehicle Assembly Building, NASA took the segment and nozzle off the Mobile Launcher Platform and replaced it with a new one last week.

The Hubble Space Telescope is the largest observatory ever to be placed into orbit. It will be launched aboard the Space Shuttle *Discovery* and placed into orbit approximately 300 miles above the Earth, high enough to avoid the distorting effects of the Earth's atmosphere.



**Slipped again...**  
The Hubble Space Telescope is still waiting for the day it will be carried into orbit.

## Pegasus ends captured flight tests

by Derrick Seys  
Space Technology Editor

The captured Pegasus rocket test that took place last week was successful enough that no more captured tests will be required according to Don Haley of NASA's Dryden Flight Research Facility.

Last Tuesday, the small rocket, built by Orbital Sciences Corporation and Hercules Aerospace, was taken into the morning air under a NASA B-52 at 8:00 a.m. PDT. The test vehicle encountered some minor electrical problems that were overcome during flight which lasted just over two hours.

"They did everything but push the button and release it," said Mr. Haley. After the first dress rehearsal, the sys-

tems were recycled and the launch simulated again. With this success, the users of the small rocket have decided the next flight will release the inert vehicle from the B-52 wing at 45,000 feet, which is currently scheduled for early March.

After successful drop tests of an inert vehicle, an active rocket will be tested. The first-stage motor will fire five seconds after the Pegasus is dropped from the B-52 pylon. Two more stages will carry the payload into orbital altitude.

The three-stage Pegasus rocket is designed to place small one-ton satellites into space from an airborne B-52. The Defense Advanced Research Projects Agency (DARPA) is the first customer of the small rocket.



**Freedom...**  
Last week the captured flight of the commercially developed Pegasus rocket was successful enough to allow for release testing of inert launch vehicles.

## Galileo speeds towards Venus enroute to Jupiter

by Jose Luis Vazquez Jr.  
Space Technology Writer

After seven years of delays, *Galileo*, a space probe which contains another probe inside, is enroute to Jupiter. It might then seem ironic how at this time it is only 5.4 million miles away from Venus. Venus is in the opposite direction from Jupiter, but by doing a series of loops through Venus and Earth's gravitational fields the probe will gather the necessary velocity to reach Jupiter after a six year trip.

The spacecraft is flying at a velocity of over 78,000 miles per hour. It has traveled almost 156 million miles since it was launched last October from space shuttle *Atlantis*. It was reported that it is in very good health. All systems aboard the craft are turned off at this time except the dust detector.

The craft is intended to study the Jovian system, which is itself a miniature solar system revolving around the red big planet. Jupiter contains information on the origin and evolution of life in the universe. While *Galileo* will remain orbiting the red planet, the probe which it carries will enter the planet's atmosphere making it the first man-made object to enter Jupiter's atmosphere.



**Cruising...**  
The Galileo probe is now over 12.5 million miles from Earth and passing by Venus.

## Space Station configuration changed

by Derrick Seys  
Space Technology Editor

NASA officials have again had to reconfigure the Space Station *Freedom* in order to comply with the \$280 million budget cut from last year.

The changes will reduce technical, schedule, and cost developments of the orbiting laboratory. Managers reviewed their options and rephased the baseline configuration, which has resulted in several previous cuts in funding.

Some of the significant milestones have still been kept. The first element will be placed into orbit by 1995, however, the completion date has slipped 18 months. The capabilities of the station remained the same in order to provide the users with the services they requested. International cooperation has also remained one of the main objectives.

To determine what systems could be feasibly changed, managers met at NASA Langley for three weeks. Their work showed a number of changes could be made to lower the cost of *Freedom* without detracting from its mission too severely. The changes that will be implemented are varied in nature.

● The power system will be changed from an AC/DC system to all DC. This will result in an increase in weight, but will cut the cost of delivering power to its scientific systems.

● The environment of space requires protection. Initially, NASA had decided to develop a high pressure suit. These plans have been changed, and the use of the new suit put off indefinitely. Instead, the extra-vehicular suits used on current Space Shuttle missions will be used, significantly reducing the developmental cost of the new protection device.

● The propulsion system of the Space Station will also undergo a change. The fuel has been changed from a hydrogen/oxygen combination to hydrazine, the fuel used to power the orbital maneuvering system of the Shuttle.

Resupplying the fuel will add to the operational costs of the space base, but these costs will be offset by the use of the current systems.

● Another sub-system was scrutinized. The development of a unique unmanned-polar orbiting platform has been approved. This contrasts many of the other cuts that exist on current technology. The new hardware will allow engineers to develop a platform instead of depending on a joint-venture to consolidate the piece.

Although the Space Station has been forced to deal with the cuts, managers have attempted to keep the purpose and goals of it the same.

The current changes are estimated to save hundreds of millions of dollars. With the money of the program constantly under scrutiny, NASA has strived to keep all costs down.

One study showed converting the design measurement system from the English to the metric system would cost over \$221 million. This is a significant amount of the stations \$1.8 billion budget for 1990.



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# ReadySoft's Space Ace an intergalactic flop

by Jason Simon  
Data Tech editor

Remember back in the mid 1980's, there was a flood of new generation video games. They were laserdisc based games, and their creators felt that these new games would put the rest of the video game market into chaos.

Unfortunately this type of game was a passing fad, but it left some memorable marks on the gaming society. One of these games was Don Bluth's Space Ace.

Space Ace followed in the footsteps of Bluth's Dragon's Lair, a hero versus dragon scenario. But Ace was a second generation laserdisc game. There was more freedom of movement involved in Space Ace. Unlike the "only one way" movement of Dragon's Lair there was a variety of ways to go and you could choose easy medium or hard levels. It eliminated almost all of the technical problems found in the lair.

Now, almost six years later, Space Ace has found its way into the homes of many computer users. The ad for the software is very enticing. Boasting over three times the screens of the computer version of Dragon's Lair and super quick loading. This is technically true, but this version is far from superior when compared to the original game.

The concept of this game is bizarre, the main character is Ace, kind of a galactic Ho-man. He and his girlfriend Kimberly are trying to stop the evil Commander Borf who is trying to take over the earth. Borf's weapon of doom is the Infanto Ray which turns humans into mindless infants.

Before Ace has time to react to Borf's initial attack, he is grazed by the Infanto Ray and is partially transformed into a spineless weakling. The only

**Space Ace followed in the footsteps of Bluth's Dragon's Lair, a hero versus dragon scenario. But Ace was a second generation laserdisc game.**

way he can return to his normal self is through a portable energizer he wears on his wrist. Unfortunately the energizer only restores Ace for about 30 seconds, and takes a long time to recharge. Now Ace, as his alter ego of Dexter must save the Earth.

Unfortunately this version of Space Ace, like Dexter himself, is spineless. Anyone who played the laserdisc game in the arcade will feel cheated by this version, from screen one to screen thirty-three. Despite all these screens the actual amount of animation ported over from the original is approximately less than ten percent.

There are many problems dealing with the coherency of the game, starting with the first screen. In the original Kimberly falls off a rock cliff and into a tractor beam that sucks her into Borf's command ship. In this version it appears that Kim falls off the cliff to her death, which makes it hard to explain to people who have never played the game that you are trying to rescue a dead woman.

Also in the original version the player was given the option of turning Dexter into Ace, thus making the game harder to solve. In this brain-dead version Dexter randomly bounces from himself into Ace and back, losing all of the fun with it.

In addition many of the transitions to different screens found in this lame version do not fit the surroundings depicted in the previous screen. An ex-

ample would be Dexter landing on what appears to be a modern space station, but when he jumps out of his craft he is in a dense jungle. A clear example of loss of coherency.

For those people who enjoyed the many colors found in the original it appears ReadySoft did a minimal amount of work when it came to re-rendering this game.

Even in the Amiga version Ace is rendered in what appears to be only 32 colors which, in some cases causes Ace to look different. It's amazing how in one screen his hair is blonde and then in the next it's brown.

The background sounds found on the Amiga version of this game were all digitized from the original game, but Amiga users will be disappointed that ReadySoft opted not to utilize the stereo sound capabilities of the Amiga. Even though Amiga users had asked ReadySoft to consider this problem.

But it appears that the biggest problem is with ReadySoft themselves. This game could have retained much of its original flair if ReadySoft had done more work on the game in the lab. Instead they opted for the easy way out, dissect an excellent game into small incoherent bits and serve it up to the consumer in an expensive (suggested retail \$59.95) boring form with a publicity campaign that is fueled on the merits of the original and is one step short of total lies.

The consumers best bet would be to leave this dog on the shelf and use the money saved to buy more productive software. But for those who have nothing better to do with close to sixty bucks, Space Ace is available for IBM, Macintosh, Apple GS, Atari ST and Amiga.



**Space waste...**  
Readysoft trashes laserdisc game to produce over-priced home model.

# SimCity transforms average Joe into Megalopolis Mayor

by Jason Simon  
Data-Tech Editor

Imagine, for a moment, being Ed Koch or the late Richard Calligari. They were both great Mayors of New York and Pittsburgh respectively. The major tasks involved while Mayor are tremendous. SimCity, a relatively new software simulation brought forth by Broderbund software, now gives you the option of ruling your own metropolis.

The simulation starts out after "terraforming" a new plot of land. The users task as Mayor is to efficiently use the parcel of land generated while keeping the complaints of the populace at a minimum.

The setup of the screen is unique in its own way. A overhead view of a small section of the land is displayed by the computer, which takes up about

75 percent of the screen. Along the right edge of the screen are the various formations the user can add to the land. These formations include residential areas, commercial areas, factories, roads, airports and stadiums to name a few.

There is a status screen that can be activated by the user. The screen displays an overhead view of the entire city. Various on screen icons are used to toggle special features that can be displayed on the city form. The user can find out various problems with the city section, such as where the most pollution is concentrated, what part of the city has the highest crime rate, and where the worst traffic problems are. There are also toggles to determine what areas have the highest land values and the highest population.

Also included on this screen is an

accurate time graph. This graph shows the rate of climb or descent of the items, such as crime, previously described over a choice of ten or one hundred and twenty years.

More important features are the budget and evaluation screens. The budget screen displays how high the taxes are

and how much the various departments (Police, Fire and Transportation) want for the next fiscal year. The user has the option of giving each department one-hundred percent of what it wants, or, if the amount of revenue is too low for that year, scale back and only give them so much of

what they want. But user beware, if each department gets less than the amount asked for, the quality of the services will go down. It will take longer for crime to go down, longer for fires to be extinguished and potholes will form in the main stretches of roads.

The evaluation screen depicts how well the Mayor is doing his job by displaying a poll taken by the simulated city dwellers.

Also depicted are the top problems encountered in the city, such as crime, pollution and housing. Plus the population of the city and the growth rate are also shown on this screen.

**If these problems are not enough for the simulated Mayor, he or she can select from preprogrammed disasters.**

The simulation is very interactive. The "citizens" of the user's town occasionally demand items like stadiums, airports, and seaports. Also as the city gets bigger it may have a brown out due to insufficient electrical power. Airplanes may crash into sections of town and an occasional ship will ram a bridge or two.

If these problems are not enough for the simulated Mayor, he or she can select from preprogrammed disasters. The disasters that can be toggled on and off include fires, flooding, air crashes, earthquakes and "Godzilla" type monsters.

But if this is still not enough for the user he or she can select from pre-programmed scenarios included from the manufacturers. Some scenarios included actually happened, like the

San Francisco earthquake, bombings in Hamburg during world War two and traffic problems in Bern Switzerland. But some of the scenes are totally bunk, like the Tokyo monster threat in 1957, a meltdown of a nuclear power plant in downtown Boston and the problem of incredible boredom in Dullsville USA.

Overall, this is one of the best simulations available for the Amiga and other home computers. It is radically different from other mainstream simulators such as Microsoft flight simulator and Accolade's test drive, but it runs just as well as the other simulators mentioned. The enjoyment received from this program will well outweigh the cost of the program itself. SimCity is available for IBM, Apple and Amiga computer systems.

# Microsoft's Flight Simulator brings electronic flight to new heights

by Joseph Szarmach  
Staff Reporter

The Flight Simulator by the Microsoft Corporation has much to offer both flight and non-flight students. With the release of Flight Simulator version 4, Microsoft has expertly simulated many of the characteristics of real flight.

After the program is finished loading the user will find himself sitting in an accurate representation of a Cessna 182, sitting at the end of Michigan's Meigs airport. The top half of the screen displays a three dimensional, out the window, view. A 360 degree view is available by pressing the arrow keys in the direction you wish to look.

This new version includes dynamic scenery. The computer pilot is now faced with avoiding other aircraft and an occasional fuel truck that may dart into their path.

The dynamic scenery also simulates weather fronts, including thunderstorms, which challenge the pilot to stay VFR at times, much like the Daytona area weather.

Though the dynamic scenery is a nice addition, it is not without cost. The tasks performed by the computer are so vast that the speed of the program is slowed dramatically, to a point which makes an 8088 microprocessor inadequate. In fact, even an 80286 is taxed to keep up with the complex calculations and animation required.

The bottom half of the display reveals the cockpit instrumentation. The simulator offers all the instrumentation feature in an actual airplane, including dual VORs with ILS, DME, and marker lights in addition to all the standard cockpit instruments.

The program has an option for one or more joysticks. This is provided so a separate yoke and a throttle can be added if the user would like a more realistic cockpit.

Other aircraft controls and engine settings can be changed by using the keyboard. For example, the gear is raised and lowered by pressing the "G" key. The carburetor heat can be turned on using the "H" key.

Other additions include the ability to fly in formation flight or air race with another computer pilot through the use of a modem, and a smoke system which can be turned on to see the other aircraft better.

Scenery disks can be purchased separately including a Florida area disk. Though the Daytona Beach Regional Airport is one of the many airports included, none of the taxiways nor the Riddle ramp, is included.

The Halifax River is nicely animated, including the river's distinctive Northern end denoting the Daytona ARSA's (Airport Radar Service Area) outer limit.

Familiar sites on a southerly departure include Ponce Inlet and the Spice Center, including a space shuttle on pad 39 B.

The Ormond airport and VOR is available on it's real world VOR frequency, and though the Daytona ILS on runway 7 left is not included, a VOR approach to Daytona's runway 16 can be made using the actual approach plates.

For the pilot wishing to practice ILS approaches, plenty can be had using the default scenery areas that are included with program. Five default areas are included: The New York/Connecticut area, Chicago, Los Angeles, San Francisco, and The Washington area. There are several ILS approaches in each of the five areas.

The Flight Simulator is ideal for learning the various holding pattern entries. The various pattern entries can be

**The program performs the first approach as instructions are displays inside a small pop-up window. The program then resets to the short final**



**No ratings required...**  
Microsoft's Flight Simulator lets you fly Cessna's 182, as well as other aircraft including: the Lear Jet and a Sopwith Camel. A new feature in Flight Simulator's Version Four allows would-be designers to create their own aircraft.

practiced without the cost of fuel or plane rental. For the non-flight student, Flight Simulator includes flight instruction in all phases of flight. For example, landing instruction can be selected from the pull down menus at the top of the screen. The program performs the first approach as instructions are displays inside a small pop-up window. The program then resets to the short final and the stu-

dent is allowed to attempt the landing on their own all the while instructions are displayed should the student make a mistake.

The fifty dollar program supports most of the popular graphic adapters including VGA, Tandy Graphics, Hercules, MCGA and CGA. It can be run from a floppy, but a hard drive is recommended and is a must for the flight lessons, logbook, and scenery disks.

Needed....

Dedicated Data-Tech writers willing to fill disk space!

For more information contact Jason in the Avion office.



You're bright enough to master Cobol and Fortran.



And you're still smoking?

# Glory is another Hollywood film featuring the horrors of War

by Joe Cambron  
Managing Editor

Just like other businessmen, Hollywood's movie moguls are no strangers to cut-throat competition, and perhaps the best way to compete is to "fight fire with fire". The overwhelming success of the New Year's epic *Born on the Fourth of July*, has nearly obscured another film that aims at a similar target in the human heart. The movie is *Glory* and it stars Matthew Broderick in easily his most demanding role.

Much like *Born on the Fourth of July*, the audience was allowed to see the meaningless carnage brought about by misplaced hate and the misuse of the power of life and death. Whole cities were "torched" for disturbingly little reason, as women and children alike either watched or were incinerated with it.

The two films are really only similar in their size and scope. Both concern war and the changes it causes. *Born on the Fourth of July*, however, only really concentrates on one man, while *Glory* aims at an entire race.

Matthew Broderick is featured in the principal role as a white Civil War commander enlisted to lead a rag-tag group of black soldiers to war against oppression. Though their efforts are endorsed by Lincoln, it is often only to easy to see the fence that President Lincoln is attempting

to straddle.

By allowing a few token soldiers into the Union Army Lincoln apparently felt that racial prejudice would be appeased. Nevertheless, nothing could be further from the truth.

In fact, discrimination amongst Union officers kept Broderick's force out of shoes, out of uniforms, and out of combat.

Nonetheless, Broderick's troops were driven with an unusual spirit that pushed them onward. Even after their wages were reduced because of their color, his troops vowed to fight without pay, as did his officers and himself.

As a commander, Broderick was stern and followed the rules to the letter. He did this even when it meant slighting a childhood friend who was now an enlisted man under his command.

His men do not follow his lead without question, however. They begin to lose faith as training evolves into manual labor, mostly consisting of burials and latrine excavation. It is Broderick's cunning which finally brings

the regiment to combat. Seizing the opportunity to blackmail a corrupt Union superior with tales of his thievery, Broderick and his force find themselves in bloody combat.

*Glory* is not a perfect film, but it deserves to be lauded for several of its accomplishments. First, it apparently is a fair representation of Lincoln's attempt to partially integrate the Union Army.

The film is, in fact, fashioned from a series of letters written home by Broderick's character.

Second, the Civil War deserves the attention paid to it by films such as this one. There simply has not been an epic feature chronicling the Civil War since *Gone With the Wind*.

Finally, few movies receive the resources that were committed to make this one. Sets, costumes, and cinematography were uniformly beyond reproach.

All the elements for an Academy Award winner were present, right? All the elements needed, having a realistic screenplay.

As this reviewer sat amongst a sell-out crowd of 500 in

a theater deep in the heart of Dixie, the crowd found it hard to stop laughing. Amongst the blood of wartime death, characters would utter some of the most unexpected lines imaginable.

The soldiers' private conversations did little other than demonstrate their lack of education, and generally substantiate the film's credibility as a moving epic of racial achievement.

Conversations amongst the officers were painfully predictable, though their actions were not. One of the most often criticized parts of the film is its frequent recitations by Broderick of his letters home. They seem more akin to one of Broderick's Neil Simon plays than a serious drama.

The film's greatest setback is also its summit. As the credits roll, most moviegoers will find themselves asking what was the point. True, the Union won the war, but not as a result of these soldiers. At least according to the film, as a result of these soldiers. It could be argued that the film is all a subtle sarcasm commenting on what little improvement has occurred over the last 130 years, but if that is the case, the moviegoer has the last 130 years to contemplate the point of it all as presented in this movie.

(\*\*\*)

**Much like *Born on the Fourth of July*, the audience was allowed to see the meaningless carnage brought about by misplaced hate and the misuse of the power of life and death.**

## European singer making the U.S. scene

by Ron Roberts  
Photography Editor

Wow! A recent success in Europe, Tanita Tikaram is breaking into the American music scene. Her songs provide a welcome relief from the redundancy of today's pop rock.

Tanita's music is a mixture of many different genres to create her own style that is both relaxing and stimulating. Her newest album, *The Sweet Keeper*, is a wonderful collaboration of different types of music to make for a truly original record.

Tanita was born in West Germany and her family moved to England where she attended college. She made her first singing debut in the Mean Fiddle Acoustic Room in London in December of 1987.

Tanita received an offer from Paul Charles to manage her immediately following her debut. She accepted the offer and was signed to WEA in March of 1988.

Tanita released her debut album, *Ancient Heart*, in September and by January of 1989, it was a platinum seller in the U.K. She also had great success in other European countries, her song, "Ancient Heart," staying at the top of the charts in Norway for fourteen weeks! She followed up her album with an extensive European tour.

Tanita toured America in the spring of 1989

and returned to Europe and more tour dates. Album sales then topped three million. After touring, Tanita went into the studio with a number of songs written on tour. These were to become her second album, *The Sweet Keeper*.

Tanita comments on her songs for the new album, "They are like my souvenirs...I write a song in each country. I can remember places by the songs I have written. This is quite sweet really."

"Once & Not Speak," is a surprising song. Tanita's exceptional and different voice add to the beauty of this piece. Tanita also plays guitar on this and some of her other songs.

"Thursday's Child," is about falling in love with someone who is very different. Originality seems to be the prevailing influence throughout this album. This song is more upbeat than most of the other songs.

"It All Came Back Today," Another love song, but with a strong folk music influence. This makes the song very soft and smooth.

"We Almost Got It Together," is a song to dance to. It has a good rhythm and good lyrics. This does have some pop rock influence to it.

"Consider The Rain," has a quieting effect.

Its melody is very different yet familiar. A standard love song with a different twist.

"Sunset's Arrived," has a great piano background and a more moving rhythm. It's an original combination of piano and trumpet.

"Little Sister Leaving Town," has the Krieger String Orchestra adding to the fullness of sound. Which adds to this sound and gives it a wonderful depth of sound.

"I Owe All To You," was unintentionally yet clearly written about her mother. A makes it a very moving and thoughtful song.

"Love Story," is probably the best song on the album. It's a love story of course, but very moving. It is well written and it has a simple background to bring out the beauty in Tanita's voice. "Harm In Your Hands," is a very hypnotic and mystical song. It has a slow melody and Tanita's voice adds to the effect of the song.

Overall the album is very good. It is original and different but not so much as to scare people away. All the lyrics are well written and the music is fitting Tanita's deep and soft voice. In today's world of pop rock, Tanita Tikaram creates her own style of music for people who want to hear and feel something different than the standard norm of pop.

**The Sweet Keeper, is a wonderful collaboration of different types of music to make for a truly original record.**



Tanita...

Another figure has entered the Music Industry. Tanita Tikaram, after having much success in her native Europe, is trying to make it the highly competitive American Market.



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# Hank Williams Jr. completes *Lone Wolf*

By David Fekke  
Diversions Editor

Hank Williams Jr. is not a Country Musician. Some people would disagree with this statement, but his music speaks for itself.

Hank Williams has a new album titled *Lone Wolf*. This album was produced by Barry Beckett, Jim Ed Norman and Hank Jr. Hank Jr. had this to say about the new album, "I love blues, jazz, gospel, traditional, Cajun, southern rock, and I think there's some of all that on this album."

Hank Jr., now 40, has been performing professionally since he was 8 years old. He got started with the aid of his father, who was a country music legend. Hank Jr. has had to live with that fact since he started performing. Hank Jr. makes this apparent in the song "standing in the shadows" he wrote when he was 16.

As a musician, Williams is very accomplished. He plays the guitar, violin, bass, steel guitar, piano and many other instruments. As a country singer he has received countless awards for his vocal ability.

He spent 18 months making this album. He got help making this album from such people as Jim Horn, who played with George Harrison on his last album, Sammy Hagar, of Van Halen fame, plays lead guitar on one song.

This album shows that he has many different influences. Some of these influences include Johnny Cash, Elvis Presley, Jerry Lee Lewis, and Ray Charles.

The first track "Good Friends, Good Whiskey, Good Lovin'" is a typical country music song with Steel Guitar and all. This is by no means the best song on the album, but it lets Hank sing about the people he considers the working people.

"USA Today" is a subtle song about refugees. This song has less impact than the first song, but still has a real country atmosphere to it.

Hank Williams Jr. calls the next track, "Hot to Trot", his Bocephus anthem for the ladies. Bocephus is of course his nickname, and in the song he pays tribute to the women that helped him when he was down in out. As far the music goes, this song has a bluesy sound to it, much more pleasing to your ear. It can also be called foot stomping. This also has a lot of jazz influences.

"Big Mamou" has strong Cajun sounds to it. It is so Cajun, that Hank Jr. has a Cajun singer, Jimmy C. Newman, sing the chorus. People from Louisiana will love this song, but they will be the only ones.

With "I Mean I Love You", Hank Jr. comes across with that skin ripping country sound. The song in his own words comes across as "an old Nixon speech".

The song "Man To Man" features Sammy Hagar. The guitar solo on this song defiantly breaks the 55 mile per hour speed limit. This track could be con-

sidered either Rock, or Southern Rock. "Almost Persuaded" follows the previous track with the same intensity. If every song on this album were like these last two, it might be a good album. They are both blues oriented with a strong rock base.

The song "Stoned At The Jukebox" goes back to the previous format. The song was written in his pick-up truck when he was in his mid Twenties after hearing the song "I can't help it if I'm still in love with you" by Linda Ronstat. He was getting divorced at the time.

"Ain't Nobody's Business" sounds like a piece written by Ray Charles but actually is a jazz song written back in the 20's. It is probably the prettiest song on the album.

The last track on the album is the title track, "Lone Wolf". The song reflects on his career and his music and how he has been in limbo between country and rock music.

Hank Williams Jr. is an amazing musician, but along with Prince, and several other musicians, he does not use his talents to his full potential. Perhaps if in the future, Williams will be open to suggestion and broaden his horizons beyond his current scope. Despite his strength as a musician, this album has little or no real meat.

The great hardships that Williams has had in his life have apparently not completely affected his song-writing ability.

**"I love blues, jazz, gospel, traditional, Cajun, southern rock, and I think there's some of all that on this album."**

**With "I Mean I Love You", Hank Jr. comes across with that skin ripping country sound.**



photo courtesy of Warner Bros.

### Foot stompin'

Hank Williams Jr. spent 18 months working on *Lone Wolf*, his new album. When Hank Jr. isn't manking music, he spends his spare time hunting wild game.

## Movie Rating System

- \*\*\*\*\* **In Flight**  
An excellent, movie worth seeing twice
- \*\*\*\* **Takeoff**  
A good movie, worth the money
- \*\*\* **Taxiing**  
A fair movie, worth seeing
- \*\* **At the Gate**  
Wait for the videotape
- \* **Crash and Burn**  
Not worth time, or money

## Top videocassette rentals:

1. Working Girl
2. Roger Rabbit
3. Rain Man
4. Major League
5. Pet Semetary

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- 2/8 *Pink Cadillac*
- Lethal Weapon II*
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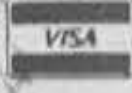
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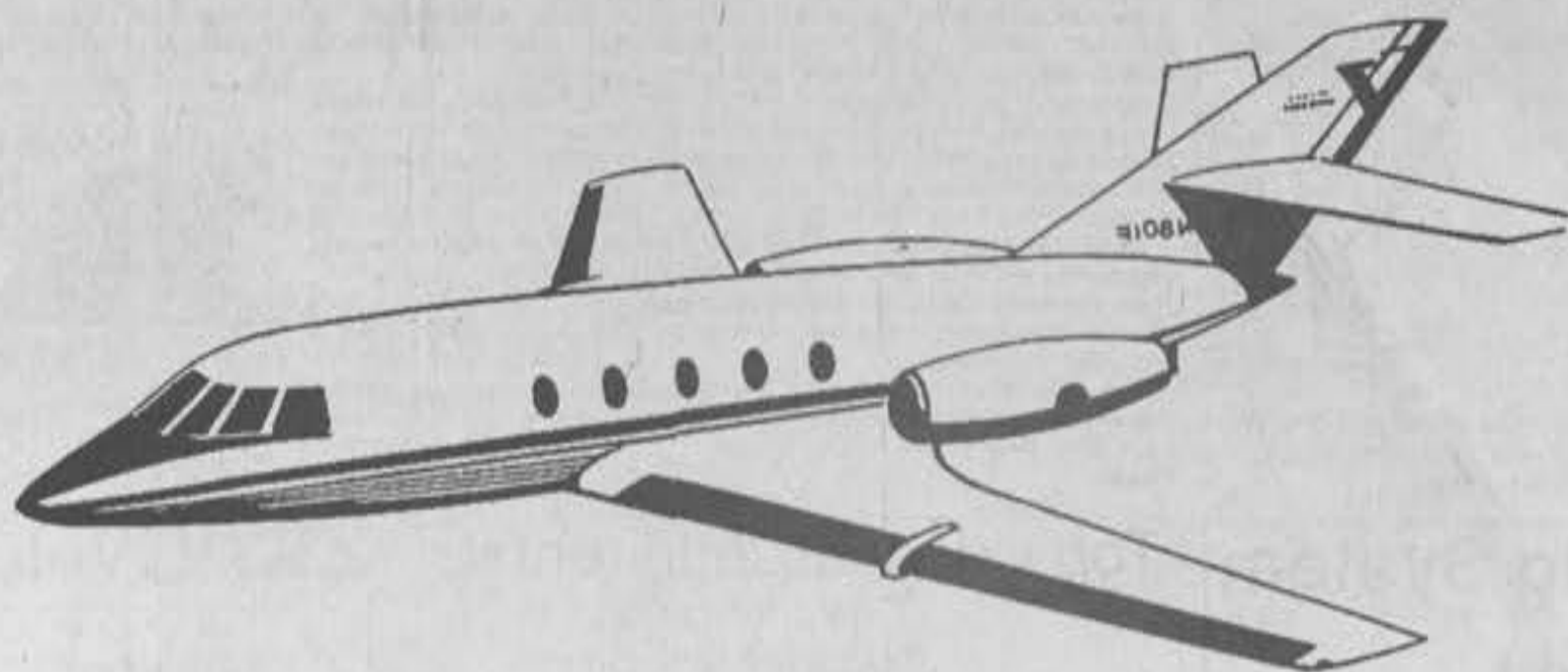
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Sunset in the vampire army.

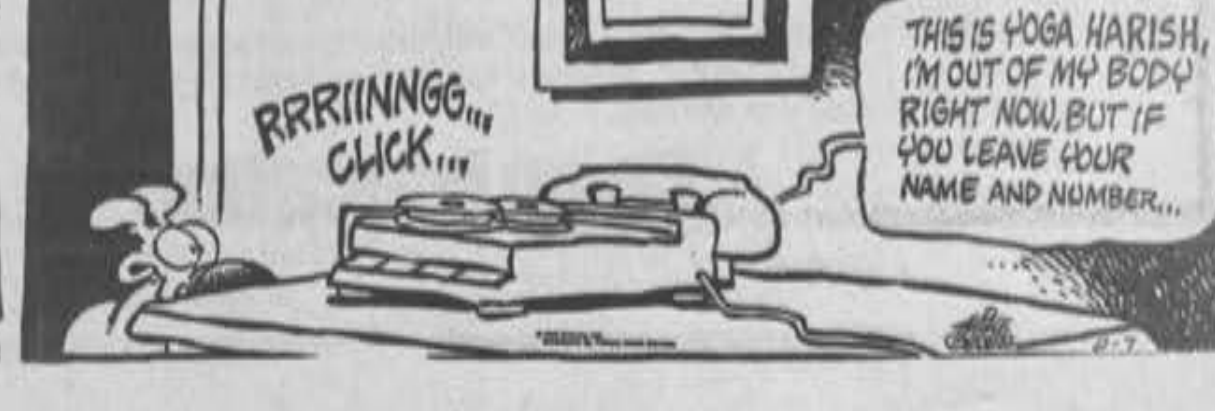


"You're so morbid, Jonathan — the paper comes, and that's the first section you always head for."



Mother Goose and Grimm

by Mike Peters



Notices

Counseling Center Programs Spring 1990

Experience+Plus!

We are looking for "non-traditional" students who are interested in getting with other such students to join our group called "Experience +" here at ERAU. A "non-traditional" student is defined as someone who initially entered college after a break of four years or more from academic studies. The purpose of this group is to form a supportive social network as well as to discuss issues that affect the non-traditional student. The group will meet for monthly luncheons.

If you are interested, please contact Lynne Norris or Patty Ruddy in the Counseling Center, 239-6035 for further information.

Communicate! An Experimental Group

One of the largest pitfalls in today's relationships occurs because of the misperceptions that cause conflict between people. Statements such as "I can't understand my girlfriend/boyfriend/the other sex..." will be addressed through viewing video clips from current popular television programming. The group will meet weekly for two hour sessions, during the weeks of February 5 - February 26, 1990. The group size is limited. Interested persons need to make an appointment, to discuss the group, in the Counseling Center during the week of January 29 - February 2, 1990.

Lecture Note-Taking

Tuesday, February 13, 1990 from 1:30 to 2:30 pm in the John Paul Riddle Student Center, Conference Room. Information on how to efficiently take legible, helpful notes.

Self Hypnosis for a "Change"

Learn how to use self hypnotic techniques to build your ego, improve study habits, eliminate negative habits, solve problems, develop positive habits, explore your inner self and much more... The self hypnosis group will meet for five two hour sessions during the weeks of February 26 - March 26, 1990. The group size is limited. Interested persons need to make an appointment, to discuss the group, in the Counseling Center, during the week of February 19 - February 23, 1990.

Free Information

The Center has books and cassette tapes that can be checked out plus many free handouts and brochures. The materials deal with numerous subjects such as stress reduction and relaxation, study skills, depression, grief, sexuality and relationships. The Counseling Center also has a biofeedback machine for stress reduction and video tapes that can be viewed in their Resource Room. The Counseling Center, located on the first floor of the Student Center is open from 8:00 am to 5:00 pm, Monday through Friday.

Orientation leader position

Applications for Orientation Leader are now being accepted. Position descriptions and applications are available in the Counseling Center. Deadline to apply is Wednesday, February 7, 1990.

Degree completion and commencement

According to University Academic Policies and Procedures, every student must make formal applications with the Registration and Records Office for degree completion. Due to the fact that there are now two

commencement ceremonies per year, new procedures have been devised. Formal application for degree completion may be made with the Registration and Records Office. A second form designates which commencement ceremony the student will attend, information for ordering cap and gown and information for commencement program. Both forms must be completed and submitted to the R & R Office no later than the application deadline published in the University calendar and the AVION "Notice" section.

Forms are now being accepted for April '90 and August '90 degree completion. If you are requesting April ceremony attendance, there is a separate form to fill out. Any Summer '90 degree completion people desiring Fall '90 ceremony attendance should so notate it on this form. If you do not wish to attend either ceremony, only fill out the "Degree Completion" form. Forms will be left with the R & R Office and checked for eligibility. If you are found ineligible for degree completion or ceremony attendance, you will be asked to re-apply at a later date.

Applications received after the published deadline may cause the prospective graduate to relinquish privileges for participation in commencement exercises, publication of student information in the program, eligibility for Chancellor's award and announcement of graduation honors. Diplomas will not be available after the ceremony for "late" applicants.

Anyone who has already applied to the R & R Office for April '90 degree completion (and ceremony attendance) and received a preliminary evaluation need not re-apply. Please be aware of your responsibility for reapplication in order that your degree completion may be a smooth one.

SGA elections

It's election time again! The SGA is now accepting applications for the positions of: President/Vice President, Student Finance Board/Student Representative Board and Chief Justice of Student Court. Eligibility requirements must be met by all applicants. The completed applications must be returned to the SGA office by Friday, Feb. 9 at 4:00 p.m.

For any further information or questions please contact:  
Tony Delauro 252-1103  
Mike Henderlong 756-4637  
Christy Kieth 252-9242

Attention April graduates

The first meeting for April graduates will be held in the Student Center at 8:00 p.m. on Wednesday, Feb. 7, 1990. Graduation information will be reviewed at that time. Elections for Senior Class President and Vice President will also take place. The Senior Class Council will be secured after the meeting on Feb. 7, 1990. The group consists of 20 to 35 volunteers for graduate's guests, raise funds for the class party, keep the class informed of their progress, and socialize prior to graduation. If you are interested in being on the council, we will meet immediately after the graduation meeting.

Creations editors and submissions needed

All those who expressed interest in "Creations" in Fall 1989 are requested to contact Ms. Berg ASAP so the staff can read and organize submissions. Submissions are being accepted now at Rm. A-230, mailing A-EH or student box 5998.

Editors please contact Ms. Berg in Rm. A-230 right away, so we can get rolling on this.

Sign up for fall 1990 housing

New contracts for university-managed housing for Fall 1990 and

Spring 1991 will be available in the Department of Housing during Feb. 5-16 in Room 278 of Residence Hall II. If you are interested, you need to complete the contract, pay \$150 prepayment, have the Cashier validate your contract, and then submit it to the Housing Office. You may complete this process anytime during this two week period; however, any contracts submitted after Feb. 16 will be placed on a secondary waiting list. Contracts for continuing students will be randomly selected for the available spaces. Therefore, this does not guarantee everyone a space.

Housing fees for the Fall 90 and Spring 91 terms are as follows:

Residence Hall I	\$860.00
Residence Hall II	\$860.00
Apartment Complex I	\$808.00
Apartment Complex II	\$860.00

BASIC SKILLS COURSES POLICY CHANGE

All students required to take Basic Skills Courses, HU 003, HU 006, HU 013, HU 017, or MA 005 must do so during their first semester/term of attendance. Courses will be graded A, B, C, or F (there are no D grades), but as these courses are not applicable to any degree program the grades will not be calculated into either the Semester or Cumulative G.P.A. Students may not drop Basic Skills courses, and any which are failed must be repeated the following semester/term. Students who are unable to satisfactorily complete a Basic Skills course after the second attempt will be suspended from the University.

If suspended, a student would need to apply for readmission to the University through the Readmissions Committee. Readmission would depend upon the student earning transferable credit (C or better) in an appropriate first level English or Mathematics course.

Students who previously took a Basic Skills course at the 100 level and now need to repeat the course will be given the repeat policy. Copies of the new Academic Policy are on file in the SGA Office, Program Chairs' Office and Registration and Records Office. If you have any questions on how this policy affects you - stop by Registration and Records.

New Parking Policy

Effective immediately, all ERAU student vehicles will be towed from the Health Center parking lot near the AWS. There will be no prior warning for this violation.

Income Tax Preparation

Volunteer Income Tax Assistance will be available every Tuesday from 5:00 pm to 8:00 pm in the Conference Room in Room A-117. This is run in conjunction with the Taxation Class taught by Ms. Wilson.

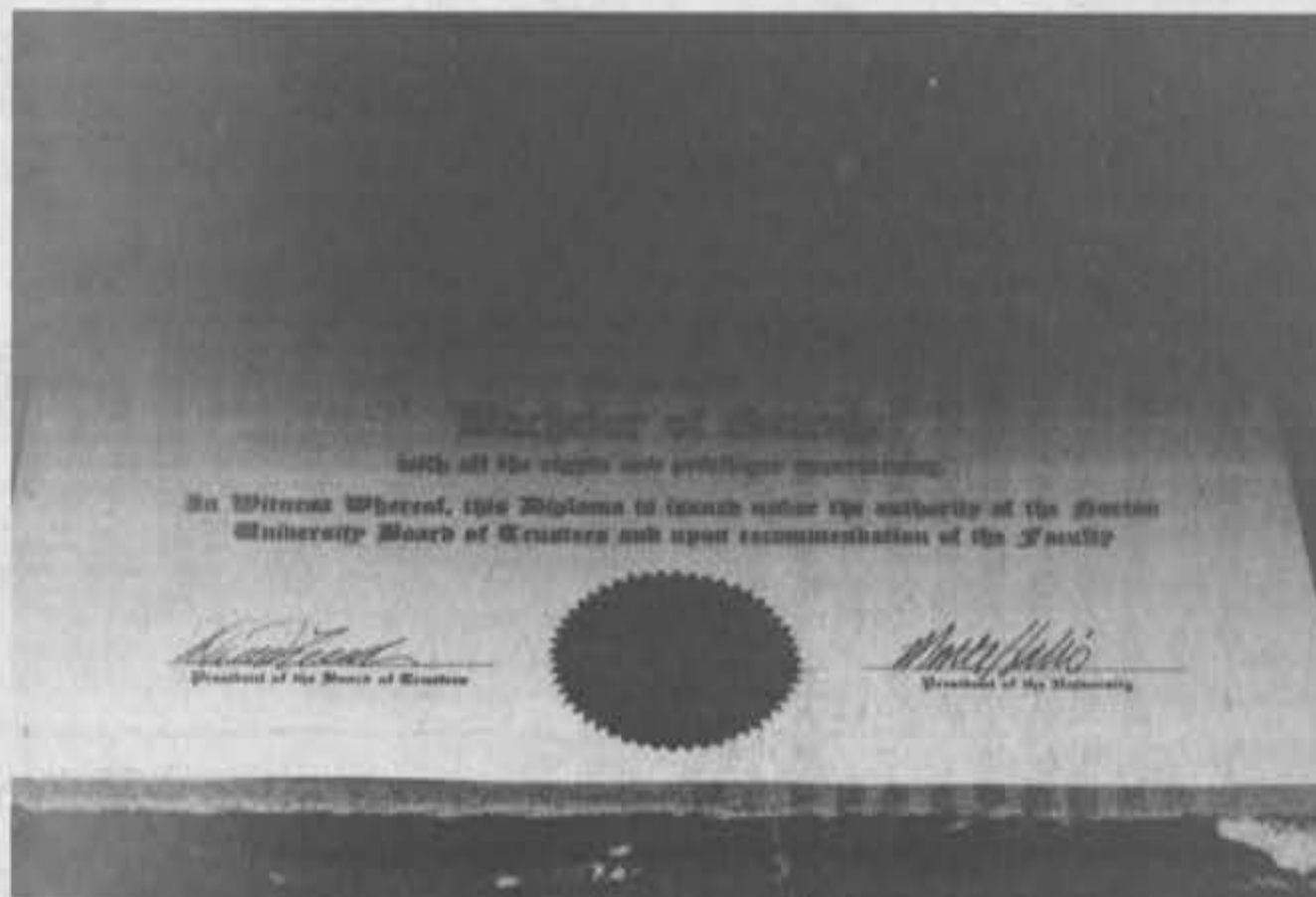
Simulite scholarship

The Simulite Corp. of Dallas, Texas, has provided two scholarships per year to Embry-Riddle Aeronautical University students. This scholarship is composed of approximately \$8,000 in training in either the Citation or the King Air Phase II simulators and \$1,000 for expenses.

To be eligible for this scholarship, the following criteria must be met: 1) complete all degree flight requirements at ERAU, 2) currently enrolled as a full time student at ERAU, 3) Have a minimum CGPA of 2.8 with a minimum GPA of 3.0 in Flight and in Aeronautical Science course work, 4) Possess Commercial Instrument and Multi-Engine ratings, 5) Recommendation from a previous flight instructor and the appropriate flight training manager, 6) Two letters of recommendation from Aeronautical Science faculty. Candidate must have had each of the faculty members for at least one upper level course.

Pick up applications at Aeroscience Office, 123 (New AWS building) Application data due into Aeroscience by end of day on Friday, Feb. 2, 1990.

# IN TODAY'S JOB MARKET EMPLOYERS WANT MORE THAN THE SAME OLD B.S.



Every year, over a million new college graduates put on their new blue suits and go job hunting. All of them have degrees. Most of them have hearty handshakes. But very few have what employers want most — practical work experience. That's why there's a nationwide program called Cooperative Education. It allows students to alternate studies at the college of their choice with paid, practical work experience in the career of their choice. So Co-op Education students graduate with more than a degree. They have practical knowledge. And a competitive advantage in today's crowded job market. And that sure beats trying to B.S. your way into a job.

**Co-op Education**  
You earn a future when you earn a degree.



We're not clowning around when we say "We need help."

We're in need of Staff personnel

We need:

- Advertising Salesmen
- Graphic Artists
- Sports Writers
- Feature Writers
- Photographers
- Space Tech. Writers
- Staff Writers

Meetings are Wednesday at 5 p.m. In the Avion office

Autos for sale

CLASSY CLUNKERS-1980 and up used cars... 100% warranty all cars. Will trade... No interest. \$500 to \$1000 cheaper than any other dealer in Daytona. Call Jim... 784-464-4028.

Pontiac Lemans-Lt. Blue/Dark Blue... 33K miles, AM/FM Cass., CB, Bosch Sony AMP, Jensen 6X9, flagle ST... 274-2936 or Box 1345.

1979 Renault Le Car-Pan Transportation... 1st \$350.00 Takes!!! Call 256-9464.

VW Bug-Needs a little transmission... Otherwise excellent shape. \$600... Call 257-7842, Leave message.

Dodge Omni-Good condition, reliable... Power steering, Automatic, Stereo... 256-2377 for DEE.

Pontiac Sunbird-Great condition... Mechanically sound, grey, sunroof, trunk... 257-2043.

1987 Ford Ranger XLT, 46,000 miles, PS... AC, AM/FM Cassette, Bedliner, \$6500... 231-7359.

1985 Chevy Chevette-Great condition. Just... 1992. Call 255-2100 Wed-Sun. 12 noon to 10 pm.

1983 Mazda 626-Still in good shape... reliable transportation, all automatic, air... 255-6618.

1988 VW GTI-16V. Sunroof, Trip Computer... AC, Red, excellent condition. Extended... 238-0983.

1983 Nissan Sentra-Only 49000 miles, New... Battery, Clutch, Exhaust, and Brakes, 5... 788-3209.

1975 Oldsmobile 98 Regency-interior... excellent, must see. Very little rust, the... 238-0587.

Cycles for sale

1982 Yamaha 250 Exciter-4,700 miles, New... tonary, Newly Tuned, Gray in color, Easy to... 788-3095.

1981 Kawasaki 500 SR-750 Good Condition... Very dependable. Must Sell, Asking \$750... 252-5388.

Roommates

Roommate wanted. Must be female. Pay... \$1000 + 1/3 utilities, needed immediately!... 257-6460, MW! between 7pm to 4pm.

Don't Miss out on Your Chance Get Out of... the Dorms-2 rooms for rent in new... 257-6460, MW! between 7pm to 4pm.

Computer! Tandy 1000, 642 K, Color... Monitor, 2 Floppies-5 1/4, 1200 Baud... 239-6370 days, 760-3628 evenings.

For Sale: 2 table lamps, floor lamp, and misc... kitchen appliances. Contact Jenny @ 5907.

Jet Ski, 550 Mod. Fast and dependable. New... paint and engine, very nice. Call Scott 760-4285.

Roommate wanted-I need a roommate for... Summer A and B to share a lg. 2 bedroom/2... 252-1103 if interested.

3 bedroom, 2 bath House for Sale in Port... Orange (Foxboro III). Built in August 1988... 756-2377 for DEE.

\*New\* Lakefront Apt. FEMALE roommate... wanted to share 2 BR 2 BA Apt. at the... 258-7673.

Roommate needed to share 3 bedroom/2 bath... house. \$250 month. Includes two rooms... 239-0665.

Furnished room for rent in quiet... neighborhood. Washer/Dryer, microwave... 257-2514, ask for Tony or Kate or leave message on machine.

Want to share room or apt. Moving Out? No... place to go? Clean, non-smoking male, 767-1742 or Box 6806.

ROOMS FOR RENT \$160 for Jan 31, 90... \$180 for March 1, 90. Both furnished, in... 258-5901.

One Bedroom Apartment for Rent-1... Bedroom, 1 bath, spacious living room... 239-0517.

Female roommate wanted. \$175 a month... Own room 3 miles from campus. 238-3339.

Roommate wanted-non-smoker, 2 bedroom, 2... blocks from Ocean Center, \$160 a month plus... 257-5587.

Forest Lake Townhouse-\$3500 Cash... including all closing costs. Just assume our... 239-5965 or 253-9105 or ERAU 3325.

Misc. for sale

For Sale: Apple IIe computer with 2... megabytes RAM. Includes Multitran RGB... 239-5965 or 253-9105 or ERAU 3325.

\* \$599 (100% IBM Compatible \*... Unopened, complete, super fast XT operates... 238-7355.

\* \$599 (100% IBM Compatible AT \*... This unopened, extra-pick, complete IBM... 238-7355.

Computer! Tandy 1000, 642 K, Color... Monitor, 2 Floppies-5 1/4, 1200 Baud... 239-6370 days, 760-3628 evenings.

For Sale: 2 table lamps, floor lamp, and misc... kitchen appliances. Contact Jenny @ 5907.

Jet Ski, 550 Mod. Fast and dependable. New... paint and engine, very nice. Call Scott 760-4285.

SoftCom C-40 Headset (Brand New) \$145... AVSTAR (Brand New) \$35. Call Jeff 2 238-3355.

Looking for RC airplane pilot w/experience... willing to teach beginner. Leave Message... 257-3813.

Learn French! I am a french student who will teach or tutor... you in the French language. Private lessons... 239-9437.

For the Animal Lover! 4 month old black... cocker spaniel for sale. Given as a gift, but... 4064.

Weight bench for sale with over 200 lbs. of... weights must sell. \$100 or best offer. Contact... 255-3057 or box 6767.

For Sale: Apple II & Computer. Complete... system including printer with near letter... 254-6854.

CLASSIFIED AD POLICY
- Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- Commercial advertising is available through the Avion advertising department.
- 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.
- 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) 239-8049.

For Sale: Couch \$40, 19 inch color TV \$60... HBC, Skateboard, like new \$70. Call Greg... 255-8667 or ERAU box 7099.

King Private Pilot video ground school... Tapes and book, VHS. \$95. Box 7546 or 253-5518 even and weekends.

Car Stereo Amplifiers for Sale: Pyle 400 watt and Alpine 60 watt. Both... excellent. Paid over \$900, \$450 for both or... 253-5518 even and weekends.

For Sale: Twin Bed. \$50. Weight Bench, 3... bars and 24 weights over 200lb. All for the... 322-0524.

Flightstick (Joystick) for IBM and... Compatibles with game card. Jetfighter... 274-2936 or box 1345.

Water bed for Sale. King Size good condition... asking \$90. Leave note in box 8052 or call... 323-9797.

For Sale: Philco 19" Color TV w/Ramona... \$150 or best. AVSTAR flight computer \$20 firm. If... 258-0269 or box 5391.

Hewlett Packard 12C Calculator for corp... finance, managerial acting or any finance... 257-4233 and by one for \$50.00. Ask for Bob.

Rotweiler Pups-Pedigreed Females, \$350... Call 253-6937 ask for Jean.

Disk Blowout-3.5 inch disks, double sided... double density \$1.00 apiece or \$8.50 for a... 760-3219.

Sailboat, 13ft Banshee. Its 115# Light weight... hull, make it easy to transport. Car rack... 760-3053.

Lacrosse Helmet for Sale-Helmet was bought... brand new and only used about ten times... 258-3862 or ERAU box 3132.

For Sale: Advent Prodigy Tower Home... Speakers-300 watts, \$230 negotiable. Call... 257-7678 after 6pm, or leave message in box 7078.

For Sale: Century 7 Radio w/light pack and 4... servos. Great Condition \$200. Call 258-5974 leave a message.

For Sale-Commodore 64 w/ printer, disk... drive, and software. \$225 or best offer. Call... 258-2445.

For Sale-20 Pro-Printer/Pro-Printer II... ribbon. \$3 each or 5 for \$10. Contact Forest... 254-6854.

For Sale-40 Channel Cobra Base Station. 80... usable side bands. Asking \$200. Also Silver... 257-1239 or Box 8265.

For Sale-Couch with Hula-A-Bed \$60... Beachcruiser \$35. Director Chair \$15. Call... 253-1125, leave a message.

For Sale-Waveless Water Bed. A complete... water bed with 2 lamps, head board. Queen... 238-0769.

For Sale-Water bed, super single, free flow... with under-dressers. Asking \$100. Leave a... 6364 or call 238-0375.

Selling \$300.00 off my CUSTOM CARD for... only \$200.00. All legally transferable to your... 760-7106 or leave message at Box 8907.

Wanted: Dedicated Female workout partner... for early morning workouts, 3 to 5 times a... 258-5907.

Interested in learning FRENCH or currently... enrolled in a FRENCH, and need some help... 258-9968, or leave a message in Box 1035.

Wanted: Flexfoil stum kits either 10' or 12'... Call Doug @ 258-5974 leave a message.

Anyone interested in driving to the... Chigoland Area or University of Illinois... 300 John box 8655.

Wanted: Dedicated Female workout partner... for early morning workouts, 3 to 5 times a... 258-5907.

Remember: LEARN, don't memorize and... you'll pass Yo Yo's class. MC

HEATHER D. Remember: LEARN, don't memorize and... you'll pass Yo Yo's class. MC

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Semi-formed band looking for drummer and... vocalist. Material performed includes: Cut... 253-7003.

Wanted: One Apple Macintosh computer... W/printer. Leave message at 258-5974.

Need your papers typed? Let me do it for you... Typed, spelling & grammar corrected for... 255-3097.

Calculator Found: Thursday morning... February 1, near telephones in library. Send... 258-5974.

Wanted: Dedicated Female workout partner... for early morning workouts, 3 to 5 times a... 258-5907.

Interested in learning FRENCH or currently... enrolled in a FRENCH, and need some help... 258-9968, or leave a message in Box 1035.

Personals

LYNN, Thank you for being my friend. KAAS

PHOENIX STAFF Have you met your deadline? If not: 1. Increase production 2. Cut Costs 3. Quit hanging around the coffee machine!! GUS

CHARLIE CO, It was an interesting way to spend an evening. Actually, I had a pretty good time. Hopefully we can do it again sometime. Please. AN ADMIRER

TO MY PETITE LITTLE FLOWER, It is great to have you back again. Thank again for the Olive Garden. Lets make this semester even more fun than the last one. Love Walter

LYNN, How about another wild Lambada sometimes? KAAS

DON, He's just painfully boring! THE MOOSE

Roses are Red Violets are Blue Oh how I enjoy Being in love with you. HOBBS

PUMPKIN SEED, You are the source of all my happiness. I love you! FOREVER P-POOH

To the one easily spotted in the UC with blonde hair and eyes of light sea green. There are things that cannot be denied, like the amazing thing between you and I.

HEATHER D. Remember: LEARN, don't memorize and you'll pass Yo Yo's class. MC

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DOUG, Only 81 days left and I'm Delta bound. BOCA GIRL

Mail is Great Mail is Cool Mail is Wonderful When it's received from you.

TONY, Some Punkin-Head loves you very much-and much more than that. Happy 22nd Anniversary. GUESS WHO?

POLAR BEAR Happy! I think you're great-keep smiling. YOUR FAVORITE ARCTIC ICE BIRD.

TO THE AVIONICS MAJOR. Work hard at everything you do and our feelings will always stay fresh and new. HOBBS

TO ROB NIVEYKO "You've lost that loving feeling." YOUR ROOMIES

MRS. SMITH It's good to be BACK. Looking forward to a semester of punishment, Hot Bubble Baths, and long trips in the car. I LOVE YOU!! MR. SMITH

TINA What Happened to You? Did you drop out of school due to a little reality trip? or just figure you would send your personals to University of Berkeley? PSUEDO TINA

VOGUE, Don't forget to pack a deck of cards in your flight bag. Maybe we can invent a new game. LOVE, POOKIE

KRESS AND DAVID, Paybacks come in packages of two, so BEWARE! you guys. FOOT RAPE VICTIM

MR. MARK C. DEEP, I'll meet you in the ladies room. MR. DIANE L. WHELTON

KELLI, Thank you for helping me. JENNY

BINO, Wann't it great to see Gus again! When does he go on active duty? JENNY

ELIZABETH, Thank you! You really saved me from a lot of trouble. JENNY

TO THE AVIONICS MAJOR Will you be my valentine? (Reply Next Week) HOBBS

TO THE HARD ONE TO SEE IN THE UC My eyes of blue are only for you but my perscription I need to renew.

TO THE BEAUTIFUL GODESS IN ACCOUNTING LET'S GET TO KNOW EACH OTHER

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