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AERONAUTICA

Aeronautica	B1
Clubs	B6
Data Technology	B4
Diversions	B5
Classifieds	B8
Comics	B7
Space Technology	B2

Beechcraft remains strong in general aviation market

Beechcraft News Release

WICHITA, Kan. — During 1992, Beech Aircraft's position in the turbine-powered general aviation aircraft marketplace remained strong.

"Although it was another down year for the industry, Beech achieved record sales, giving us a renewed confidence in the future," said Beech President Jack Braly.

"Over the past few years, growth of the Beechjet program — including both the commercial Beechjet 400A and the Air Force T-1A Jayhawk — has helped Beech thrive in a tough market," Braly said.

Since introducing the Beechjet in 1986, Beech has become the second largest light jet manufacturer in the world, delivering more than twice as many Beechjets in all configurations during 1992 as it did in 1991.

"Combined commercial and government-derivative King Air jetprop

deliveries also increased in 1992, compared to 1991," Braly added. During the past year, Beech diverted 15 government-configured versions of the King Air from commercial availability. Together, the commercial and government King Air versions continued their domination of the twin-engine jetprop marketplace.

"Strictly on the commercial side of the business, our business jetprops and light jets did well, compared to the company's performance the previous year, and compared to the competition," said Doug Mahin, vice president Marketing.

"The company's customer sales of the King Air product line and the Beechjet 400A both continued strong in 1992," he said.

"This reflected an overall sturdy market for our business jetprop and, particularly, for the Beechjet 400A, among all of the light jets," Mahin added.

Sales of Super King Air 350 and

King Air C90B models in 1992 were ahead of the 1991 pace. However, sales of Super King Air B200s were below the 1991 rate, reflecting reduced availability due to introduction of an improved version of the airplane, the improved Super King Air B200, late in the year. Beech's overall share of the business jetprop market continues above 90 percent.

Despite an overall dip of 13 percent in the world's light jet marketplace, Beechjet sales remained healthy. "Retail Beechjet deliveries in 1992 from our dealers to customers actually exceeded 1991's performance," Mahin said.

"Consequently, our market share of light jets significantly increased — an exceptionally strong performance when you remember we only entered this market in 1936 and we were going up against some formidable competition," he added.

see Beech, page B8



Courtesy of Beechcraft

This Beech Super King Air is only one of Beechcraft's successful general aviation aircraft. The 350 model's sales were up in 1992.

FAA diverts funds to weather phenomena investigation

By Denis Biscobing

Staff Reporter

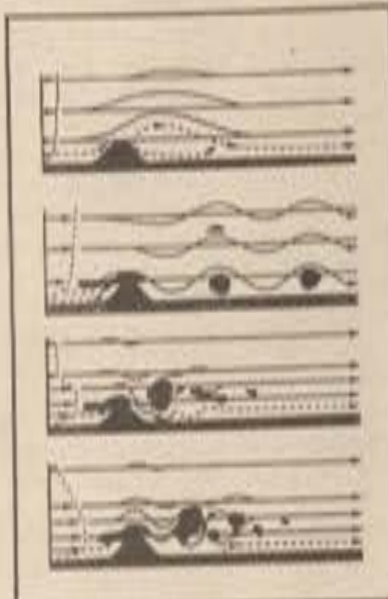
The FAA is planning on diverting funds from programs to investigate mountain waves near Colorado Springs, Colorado.

The crash of a United Airlines Boeing 737 at Colorado Springs in 1991 prompted the FAA to begin a program to identify meteorological hazards on the approach and departure paths at the Colorado Springs Municipal Airport.

If the research program is successful, FAA funding for the program will increase and grow to include other airports located in mountainous terrain.

The National Transportation Safety Board (NTSB), who suggested that the FAA start such a program, is recommending that the study be broadened.

Up to 4% of the total program cost will be shifted from other programs in weather-related studies. Currently, \$6 million has been appropriated for those pursuits.



The hazardous effect of wind in mountainous terrain.

The focus of the study at the present time is low-altitude rotor winds, but it will also investigate other phenomena associated with mountain flow interactions.

National Oceanic and

Atmospheric Administration (NOAA) researchers have been stationed at the Boulder, Colorado NOAA office, reserved to respond to the implementation of a rotor-wind detection program.

Sensors would be placed at various locations around the airport to monitor winds and other meteorological conditions. Sensors may include Doppler Lidar, boundary layer wind profilers and/or radio acoustic sounding systems.

Other technologies do exist that could determine if there is a meteorological hazard that is unique to Colorado Springs.

If a hazard is found, a combination of the above systems and other technologies could be used for detection and warning.

Donald Carver, assistant coordinator for meteorology for the Transportation Department, said of wind rotors: "They are a known phenomenon... that occurs usually at altitudes that are fairly close to the elevation of peaks, but besides that, not much more is known about them."

OTHER ACCIDENTS IN WHICH A PROBABLE CAUSE WAS UNDETERMINED

Allegheny Airlines Convair 440, Jan. 6, 1969, Bradford, Pa., 11 fatalities.
Southern Airways DC-9, Nov. 14, 1970, Huntington, W. Va., (Marshall University football team), 75 fatalities.
Sierra Pacific Airlines Convair 340/440, Mar. 13, 1974, Bishop, Calif., (David Walper film crew), 36 fatalities.
USAF B-52, Jan. 10, 1964, east of the Sangre de Cristo Mountains, Colorado/New Mexico.
BOAC Boeing 707, Mar. 5, 1966, near Mount Fuji, Japan.
BAC 111, Aug. 6, 1966, Falls City, Neb.
Fairchild F27B, Dec. 2, 1968, Pedro Bay, Alaska.

Although probable cause was not determined, these accidents may have been a result of wind rotors.

Generally, rotors are formed when fast-moving air passes over mountainous terrain.

The obstruction causes turbulence, and eventually causes horizontal vortices on the lee side of the mountain. Cloud formations may be caught in these vortices and begin spinning.

Lenticular, or lens-shaped, clouds are another indication of the hazardous rotor-creating mountain waves.

They are formed as the fast-moving air meets the mountain's

face and is forced higher into the atmosphere.

As the air mass rises, it is cooled to a point where clouds may be formed. The clouds are bounded by the layers of air that are formed above and below it, as the wind passes over the obstruction to flow, causing a lens-shaped cloud.

The FAA is also supervising the development of airborne detection systems. They recently exempted Northwest, American, and Continental airlines from acquiring airborne wind shear alerting

equipment, which will be required in commercial aircraft by the end of 1993. These exemptions will allow the carriers to use forward-looking Doppler radars that will increase their capability for detecting weather hazards.

The airlines will work in conjunction with Westinghouse, Collins and AlliedSignal Bendix to install the equipment, which is still in the research and development stage.

Any information gathered during the course of the study will have major importance, in aviation and beyond. Safety is the main reason behind the study, but the world of science as a whole will gain from the investigation.

In the past, mountain-wave research has been on a limited basis. This will be the first intensive study of the phenomena, and is certain to bring to light many of the mysteries that they hold.

Hopefully, through an increased understanding of these hazardous winds, future accidents and incidents can be avoided.

McDonnell Douglas to support aviation in Saudi Arabia

McDonnell Douglas Press Release

ST. LOUIS — McDonnell Douglas Services Incorporated, and World Trade Development Corporation Limited, have formed a joint venture company to support civilian and military aircraft operations in the Kingdom of Saudi Arabia.

The new Saudi-American company, McDonnell Douglas Arabia Ltd., will provide operational and maintenance support for military and civilian aircraft and equipment in Saudi Arabia, offer technical training, and construct and maintain related facilities.

C-17 project receives award

By Denis Biscobing

Staff Reporter

The Institute for the Advancement of Engineering (IAE) has named the US Air Force/McDonnell Douglas C-17 Airlifter program the winner of a 1993 Engineering Project Achievement Award.

The award is given by IAE to organizations that "have brought to organizations that 'have brought to fulfillment engineering projects which, because of their scope or unique character, are outstanding and deserve merit."

The Airlifter program was responsible for the design, development, and flight testing of the C-17, the military's newest transport aircraft.

The C-17 was selected for the award because of its complexity, use of new engineering techniques, its functional efficiency, the value of the work from an engineering standpoint, and the social

impact of the program.

The aircraft was also chosen because it was brought from design to operational status within three years, and it was designed in Southern California, where IAE is based.

So far, the C-17 has shown itself to be an outstanding design, proving its position as the most advanced, cost-effective solution to the nation's airlift needs now and in the future.

The award will be formally presented to George Field, the vice president and general manager of the C-17 Design and Test group.

This presentation is set for February 19 in Long Beach, California.

Field was previously given the organization's Project Achievement Award in 1991 for design, flight testing, and certification of the McDonnell Douglas MD-11 airliner.



McDonnell Douglas will begin operations in Saudi Arabia early in 1993. One of the company's functions will be support of seventy-two new F-15S Eagles that will be delivered to the Royal Saudi Air Force.

support and training to the Royal Saudi Air Force.

The company continues to support the air force's ever expanding defense requirements. World Trade Development Corp. is a Saudi limited liability

holding company involved in real estate development, construction and support related programs for military and civilian entities.

This venture may be a good indication of an upturn in the nation's economy.



The McDonnell Douglas C-17 Design and Test Group is the recipient of an Engineering Project Achievement Award, to be presented by IAE on the 19th of this month.

Volunteer aviators sought

Air Care Alliance Press Release

VENICE, CA — Information on free air medical transportation and other charitable public service flying is now a toll-free call away, thanks to the recent establishment of an 800 hotline number by the Air Care Alliance (ACA).

Medical patients and their families, socialworkers, pilots and others can call 1-800-296-1217 anytime and receive referrals and information on volunteer pilot organizations or other long-distance medical air transport services.

"The 800 number is a giant step forward in our ability to connect both patients and pilots with the volunteer humanitarian flying organization in their area," said Bill Worden, president of Air Care Alliance.

"The Air Care hotline will greatly facilitate contacts between users and providers, connecting those who need assistance with medical transportation to those offering to help."

The Air Care Alliance is the umbrella organization representing the many humanitarian pilot organizations across the country that are dedicated to public benefit flying.

According to Worden, pilot members of the Air Care league help hundreds of people every month by providing air transportation and support for health care, disaster relief and environmental observation.

"We urge any interested pilots, as well as any needy individuals, to call 1-800-296-1217 anytime to receive information on how to give support or get help," said Worden.

2nd German Spacelab mission set to launch in two weeks

Columbia rolled out to Pad 39A on Sunday



The crew of STS-55 include in the front, from left to right, pilot Terence Hendricks, mission commander Steven Nagel, and mission specialist, Charles Precourt. In the back are, left to right, mission specialist Bernard A. Harris, Jr., payload specialist Hans Schlegel, payload commander Jerry Ross, and payload specialist Ulrich Walter.

By Roland Houle
Staff Reporter

The world's first space shuttle, *Columbia*, is being readied for its 14th flight into space that is expected to come in two weeks.

Columbia was rolled out to launch Pad 39A this past Sunday at 12:35 p.m. after a weather delay.

The flight readiness review is scheduled for tomorrow, where mission managers will evaluate the current orbiter status and determine an official launch date and time.

On Thursday, February 25, the shuttle is scheduled to lift off Pad 39A at 10:20 a.m. on a nine-day Spacelab mission.

The flagship of America's shuttle fleet will be carrying a crew of seven, including two German payload specialists.

STS-55's primary payload is Spacelab D2, for the second shuttle mission dedicated to Germany. Spacelab D1 was flown in 1985 aboard the Space Shuttle

Challenger. That was the orbiter's last completed mission.

Over 90 experiments will be conducted during this Spacelab mission. The seven-member crew will be divided into two teams, so that science operations can be carried out around the clock.

Most of the experiments have been provided by the German Space Agency and the European Space Agency (ESA). Japan has also provided several experiments, and NASA is furnishing three experiments for this mission.

In addition to developing the concept of Spacelab itself, ESA will fly a total of 21 experiments, and participate in 11 others.

Five are contained in the Advanced Fluid Physics Module and 19 are placed in the unique equipment facility, called Anthromick, for human physiological research in microgravity.

Six other experiments are for the future Columbus Attached Pressurized Module, which will form part of the international Space

Station *Freedom*, if the project survives threatened budget cuts by the Clinton administration.

NASA will be flying its "ham" radio experiment, SAREX, which will enable the mission commander and a mission specialist to talk to schools and amateur radio enthusiasts on the ground. Both German payload specialists are licensed ham radio operators as well and will be operating their own ham system called SAFEX.

The seven member crew is a mix of veterans and first-time space travelers. Commander Steve Nagel and Mission Specialist Jerry Ross will both be making their fourth trip into orbit. STS-55 will mark Pilot Tom Hendricks' second flight.

Mission Specialists Charles Precourt and Bernard Harris will be making their first space flights, as will the two German Payload Specialists Ulrich Walter and Hans Schlegel.

Columbia is scheduled to land at Kennedy Space Center on March 6 at 8:25 a.m.

Pegasus vehicle launches from KSC

By Brian Gamage
Space Technology Editor

The rain forests of Brazil may have just received the help they will need to slow their current demise from human development.

Orbital Sciences Corporation's Pegasus air-launched space booster successfully conducted its third mission yesterday, placing the Government of Brazil's first spacecraft, an environmental data collection and relay satellite, into a precise low-Earth orbit.

A NASA B-52 aircraft carried Pegasus to its launch site, 80 miles east of Kennedy Space Center and over 40,000 feet above the Atlantic Ocean. The vehicle was dropped from the aircraft's wing at 9:30 a.m. yesterday, ignited, and delivered the satellite into orbit.

"Today's launch marks the transition of Pegasus from a developmental rocket to a fully operational



The first Pegasus launch vehicle drops from the wing of a B-52 to deliver a satellite to low-Earth orbit.

space launch vehicle. It is scheduled to carry up to six launches in 1993, for customers including the U.S. Air Force and NASA," stated Mr. David

Thompson, Orbital's president. The satellite will relay data from rainforest collection platforms in order to determine its rate of decline.

The edges of science...

Waves of the future could come from gravity II

By Brian Gamage
Space Technology Editor

In last week's visit to *The edges of science...* I reported on some of the results of Einstein's General Theory of Relativity and a new and bizarre picture of how gravity works emerged. It was concluded that gravity was caused by mass being told where to go by the curvature of spacetime — which, it was understood, was the four dimensional nature of the universe.

In order to clarify things from last week, I think I should state that ALL matter bends spacetime. That is, all massive objects create wells in spacetime, just as all objects placed on a trampoline would create wells. However, only the largest objects bend spacetime enough to make a difference, which demonstrates the weakness of gravity. In other words, it takes trillions and trillions of mass particles together to produce a noticeable gravity field, but only a few charged particles to produce a detectable electric field.

The spacetime well of a planet will be larger and

deeper than the spacetime well of its neighboring moon, so the planet's "gravity" will be greater. Our spacetime wells are so incredibly minute compared to the Earth's that we have no choice but to live our existence eternally accelerating toward its center.

When the spacetime wells of two neighboring stars, which are rotating around each other interact, ripples are created that then radiate outward in every direction. These ripples are gravity waves.

Gravity waves come in various shapes and sizes, with different "waveforms" and "wavelengths" depending upon the nature of the violent events that created them. The collapse of a star into a black hole creates a certain type of gravity wave just as the collision of two stars would create a different type of gravity wave.

Attempts to detect gravity waves began in the 1960s with Joseph Weber at the University of Maryland. Weber carefully suspended an aluminum rod in an extremely sensitive motion detecting device in hopes that a gravity wave passing by would bend the rod

see Gravity, page B8

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Clinton administration talks of cutting space station budget

By Rob Reichenbach
Staff Reporter

A reported plan to scrap space station *Freedom* could affect 3,000 workers in Huntsville, where the space agency has budgeted more than \$400 million this fiscal year to develop the project.

Space industry officials voiced doubts Friday that *Freedom* would be axed. The White House said later, that President Clinton may cut spending to the project but doesn't plan to cancel it.

Jack Lee, director of Marshall Space Flight Center, said he assumes the Clinton administration is supportive of the space station.

"I like to be optimistic that they are just looking at this without any strong intentions of cancellation," said Lee.

He commented that the new administration is reviewing a budget plan that would cancel the station and another high-cost item, the



superconducting supercollider.

Clinton himself was quick to deny that any decision had been made.

Asked if the projects had been canceled, the president said, "That's not true."

His spokesman, George Stephanopoulos, said that "it's possible" both projects could be cut, but Clinton "is not cancelling the supercollider or the space station."

Lee said that discussing the two projects "in the context of future planning is one thing. Deciding to cancel them is another thing."

Marshall's current fiscal year budget for the space station is \$407 mil-

lion, with about \$250 million of that being spent in the Huntsville area.

The bulk of it goes to the prime contractor, Boeing, which has about 2,400 people employed at Huntsville.

About 500 NASA employees at Marshall also work on the space station.

Officials with Boeing's Huntsville operation said in a statement Friday that "Our international partners throughout Europe and Japan have invested about \$3 billion in the program and have a longstanding commitment." U.S. Sen. Howell Heflin said he was pleased to hear Clinton's support for the space station program.

"The president vowed during his campaign to support the space station and the space program because of scientific, economic and environmental benefits," Heflin said.

"To kill the space station would not only destroy a visionary

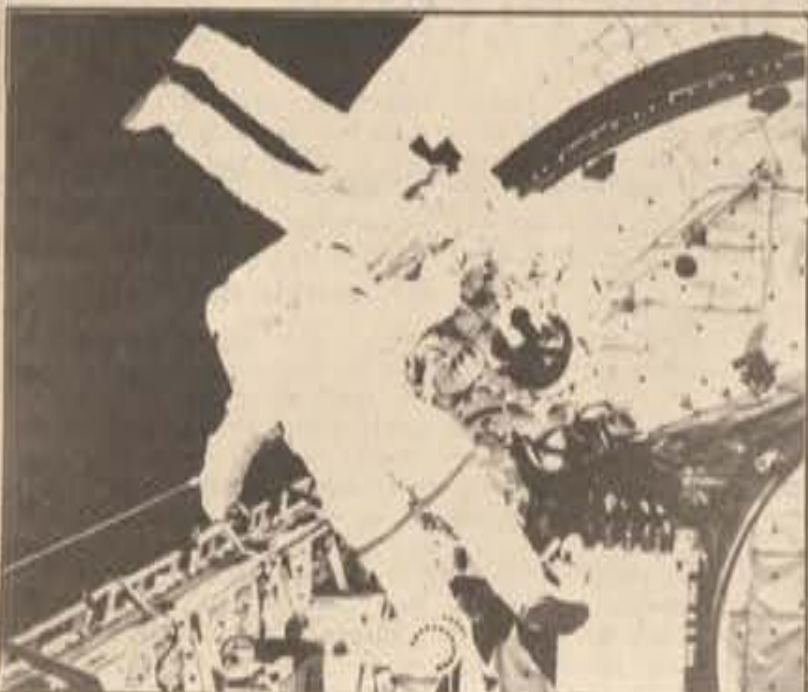
see Freedom, page B8



An artist's conception of the redesigned Space Station *Freedom* at the permanently manned stage. Shuttles will first be used to deliver the modules and then supplies and changes of crew. Recent developments put the future of the station in jeopardy.

Spacewalk added to July shuttle mission

By Brian Gamage
Space Technology Editor



Greg Harbough carries astronaut Mario Bunge Jr. along the side of *Endeavour's* cargo bay during STS-51-L mission.

A spacewalk has been added to space shuttle mission STS-51 aboard *Discovery*, which is set to launch in July, to continue extravehicular activity (EVA) tests begun with the addition of a spacewalk to NASA's first 1993 shuttle flight in January.

The STS-51 spacewalk is part of a series of tests NASA will conduct during the next three years to prepare Space Station *Freedom*, scheduled to be built in orbit starting in early 1996, barring any more complications or budget cuts by the Clinton administration.

"The addition of the spacewalk to STS-51 will allow us to continue refining our knowledge of human performance capabilities and limitations during spacewalks," said Ron Farris, Chief of the Extravehicular

The tests, as performed on *Endeavour* during the successful STS-54 mission in January, concentrate on defining the limits of spacewalking abilities.

The activities also help scientists better understand the differences between true weightlessness and the ground training facilities that simulate weightlessness and gaining more insight into the times required for various tasks to be performed while spacewalking.

"This EVA constitutes a continuing commitment by NASA to advance our preparation for future EVA missions such as the Hubble Space Telescope servicing and *Freedom* assembly flights," Farris added.

The EVAs expand the experience levels among the astronaut corps, shuttle flight controllers and spacewalk training instructors.

Other 1993 shuttle flights remain under consideration for the addition

Russian Space Agency's space mirror is successful

By Joshua Mussaf
Cuba Editor

Russian scientists of the Russian Space Agency unfurled a mirror in space last Thursday, February 4, and briefly bounced sunlight onto the night side of Earth, testing a new solar spotlight that could eventually illuminate parts of the planet.

It was unclear whether the experiment, named Operation Banner, came off exactly as planned. But officials claimed victory in the most important part, in which the 82-foot wide reflective sheet was spun open like a parachute behind the unmanned cargo ship *Progress*.

"It was not completely successful, but it did go rather well," said Semyon Lukasky, an aide to the project director.

Russian television, giving no

the circular sheet had opened wider than planned. It showed what it called a videotape of the aluminum-coated sheet looking something like a propeller.

Scientists released the spinning mirror from the unnamed *Progress* at about 7:45 p.m. EST Wednesday after the ship was detached from the orbiting *Mir* space station.

The videotape, made by *Mir's* two-man crew, showed the mirror opening slowly, like a metallic flower blossoming, from one end of the *Progress*. In a profile view, it looked like a silver umbrella over the end of the spaceship.

Flight control director Viktor Blagov said that after the mirror was opened, scientists angled it to reflect sunlight from the opposite side of Earth onto the night side of the planet.

see Mirror, page B8

DAYTONA SPEED WEEK

Alternate Route Plan

Thursday, February 11

Before the race:

- Richard Petty Boulevard will be one way westbound from Clyde Morris to Midway from approximately 9:00 a.m. to 11:30 a.m.

After the race:

- Richard Petty Boulevard will be one way eastbound to Clyde Morris where all traffic must then turn right.

- Bill France Boulevard will be one way northbound from Int'l Speedway Blvd. to Mason Ave.

- Mason Avenue will be one way westbound from Bill France Blvd. to Williamson Blvd.

- Westbound traffic on Int'l Speedway Boulevard will be detoured north on Bill France Blvd. to Mason Ave. where it can go west to Williamson Blvd. or east back into the city.

Friday, February 12

- Normal traffic is expected throughout the day.

Saturday, February 13

Before the race:

- Eastbound traffic on Int'l Speedway Blvd. who are not going to the races must use the Bellevue Avenue extension.

- Richard Petty Boulevard will be one way westbound from Clyde Morris to Midway from approximately 7:00 a.m. to 11:00 a.m.

After the race:

- Richard Petty Boulevard will be one way

eastbound to Clyde Morris where all traffic must then turn right.

- Bill France Boulevard will be one way northbound from Int'l Speedway Blvd. to Mason Ave.

- Mason Avenue will be one way westbound from Bill France Blvd. to Williamson Blvd.

- Westbound traffic on Int'l Speedway Boulevard will be detoured north on Bill France Blvd. to Mason Ave. where it can go west to Williamson Blvd. or east back into the city.

Sunday, February 14

Before the race:

- Eastbound traffic on Int'l Speedway Blvd. who are not going to the races must use the Bellevue Avenue extension or the 11th street extension.

- Richard Petty Boulevard will be one way westbound from Clyde Morris to Midway from approximately 8:00 a.m. to 11:00 a.m.

After the race:

- Richard Petty Boulevard will be one way eastbound to Clyde Morris where all traffic must then turn right.

- Mason Avenue will be one way westbound from Bill France Blvd. to Williamson Blvd.

- Westbound traffic on Int'l Speedway Boulevard will be detoured north on Bill France Blvd. to Mason Ave. where it can go west to Williamson Blvd. or east back into the city.

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Some advice on choosing what computer to buy

By Roland Houle

Staff Reporter

This is one of the best times in a long time to buy a computer, but what should you get for your first computer (or upgrading your present one)?

The first question you should ask yourself is what will you be doing with your computer the majority of the time. If you answer playing games, you're probably better off investing in Sega Genesis or Super NES. If you answer word processing, Computer Aided Design (CAD), spreadsheets or programming, you are serious about needing a computer.

The next question is what type of computer should you get - IBM or a Macintosh? Of course there are other computer systems available, such as the Amiga, but they do not have nearly the hardware or software support that the two "biggies" do.

IBMs (I am including IBM compatibles in this category) run with a Disk Operating System (DOS) in which commands are typed in

through the keyboard. Macintoshes also have an operating system, but commands are done through a graphical user interface and a mouse. (In other words you use the mouse to point at what you would like to do.)

I have used both systems extensively, and I believe that it comes down to what you are doing and personal preference in deciding what type of computer you should get.

There are some things, such as word processing, spreadsheets and CAD (and of course games) that I would rather do on an IBM system, and things such as graphics and desktop publishing that I would rather do on a Mac. If you could take the best features of both systems, you would have the ultimate computer system.

This week I will be discussing what type of IBM or compatible system you should get, if you decide that is what you want. In the next Data Tech (two weeks) I will discuss a starter Macintosh system.

Hardware

Your best value now is probably a 80386DX (a.k.a. 386) based computer. It is not the top of the line, but

it can run most software at a very reasonable speed. If money is no object or you plan on doing a great deal of CAD, you may want to splurge and get a top of the line 80486DX (a.k.a. 486) based computer.

Another term that usually goes along with the chip number (80386 or 80486) is the speed of the chip. It is in terms of Megahertz, and is usually in the 25-66 MHz range for these computers. The higher the megahertz for the same chip, the faster the computer will run. That does change when you change from different chips.

For example, a 386 computer running at 33 MHz is faster than a 386 running at 25 MHz but is slower than a 486 computer running at 25 MHz. Generally, as with everything in life, the more speed you want, the more money you pay.

As far as floppy drives go, I recommend getting both a high density 3.5" and a high density 5.25" drive. The 3.5" drive is the way of the future, but sometimes you can get software cheaper by getting it on the older 5.25" disks. For the extra \$60 or so, it's worth having. The higher

density drive will increase speed and storage capacity.

The monitor should be a VGA color monitor. With prices as low as they are, it is not worth the aggravation of putting up with a lower quality monitor. If money doesn't matter at all, a Super VGA monitor makes things even better.

A hard drive is a must nowadays. The minimum size you should get is a 40 megabyte (meg) drive, but you will probably fill this quite fast. An 80 meg drive is recommended, and anything bigger would be even better. (Currently, there are programs that take up 25 megs alone.)

Another necessity is a keyboard. You can get a cheap 84-key board that you will be miserable with, or a 101-key board that costs slightly more but the convenience outweighs the price. Since the keyboard is what you will be using the most out of your computer system, you should get the better one.

There are countless extras you can get for your computer system, but there are three that I highly recommend - a modem, a mouse and a printer.

A \$15 mouse will make your life

a whole lot easier. This little device can increase your productivity tremendously. Nobody should be without one.

A modem can link your computer to other computers via phone lines. The amount of information that can be received from these other computers is virtually endless. I suggest at least a 2400 baud modem. If you have the money, a 9600 baud modem is four times faster at about four times the cost.

A printer will allow you to get printed copies of your work on the computer. (If you have no way of printing out your homework for example, it does you no good to do it on the computer.) If you don't have the money for this, you can always load the file on a disk and go to the computer lab to print it out, but it is nicer to be able to print whenever you want to.

Software

Microsoft Windows 3.1 is a very good program, especially for new users. It has a graphical interface (similar to what the Mac uses). Once it is set up, you may never need to learn any more than the basics of DOS.

For word processing, I suggest Word Perfect. It is the most widely used word processing program in the country, and that is not by luck. It has many powerful features that allow you to do almost anything with a document. Another good word processing program is Microsoft Word.

For spreadsheets, I recommend Lotus 1-2-3. Again, this is the most widely used program in its category, but it is being rivaled by Microsoft Excel. Both have similar capabilities, but their methods are different. This may come down to personal preference, again.

Overall

Of course, I have only touched on a few of the many possibilities in the world of computers. If you are interested in purchasing a computer, I suggest you read a few computer-related magazines to do some more indepth research than I have presented you. Then, buy a Computer Shopper Magazine for mail order prices and visit some local retail computer stores, so they can answer questions that you will probably have.

FTC denies Microsoft investigation

WASHINGTON (AP) - The Federal Trade Commission deferred action last Friday on its closely watched antitrust investigation of Microsoft Corp., the world's largest computer software company.

For 2 1/2 years, the FTC has been investigating allegations that Microsoft Corp. has unfairly used its dominance in the market of personal computer software to squelch competition, according to industry officials.

Microsoft makes MS-DOS, the standard operating system for IBM and IBM-compatible personal computers. It also produces programs that compete with the software applications made by other companies to be run on DOS systems.

Although the FTC meetings are closed to the public, it was widely known within the industry that last

Friday's session dealt with the Microsoft case.

Bill Gates, the Harvard dropout who built Microsoft and who was recently billed by Forbes magazine as the richest American, met earlier this week with commission members to discuss the case, said Marianne Allison, a spokeswoman for Microsoft, which is based in Redmond, Wash.

Microsoft was cooperating with the investigation, Allison said.

In addition, a representative of Borland International Inc., a California-based maker of database and spreadsheet programs, also met with commissioners this week to outline the company's complaints about Microsoft, said Heidi Sinclair, a company vice president.

The FTC, which has not acknowledged that it is investigating

statement apparently aimed at quelling stock market rumors about the company.

The FTC said it had met "to discuss FTC staff recommendations regarding a non-public law enforcement matter" and "did not come to final decision." The statement added that the commission "will reconvene in the near future" to continue the discussions.

After dropping 2 1/2 points in NASDAQ trading, Microsoft shares rose following news that the FTC had taken no action to close at 87, up 2 points from last Thursday.

Microsoft's MS-DOS program is the standard disc operating system for 100 million IBM or IBM-clone personal computers.

Microsoft had revenues of \$2.75 billion in the fiscal year ending last June 30. It credited record sales of

lift profits 35 percent to \$236 million for the last three months of 1992.

Software companies have accused Microsoft of unfairly withholding information about new versions of DOS and other products to make it harder for competitors to sell programs to work with DOS.

One software company, Stac Electronics, of Carlsbad, Calif., last week accused Microsoft in a patent-infringement suit of using its data compression software technology for a new version of DOS due out this spring after refusing to pay any royalties on the program.

The patent infringement suit charges that Microsoft warned Stac that unless it was given a free license to use the STACKER program, the software giant would obtain similar technology elsewhere

Things to come...

Macintosh

Roland Houle will provide some insight into purchasing an Apple Macintosh. As with this issue, the focus will be on hardware and peripherals. If you are more interested in a Mac, or would like to compare the two systems, then look for Mr. Houle's article in the February 24th issue of the Avion.

Beyond the Abyss

Origin has released its sequel to *Ultima Underworlds: The Stygian Abyss*. The *Underworlds* series is a solo, one person perspective, fantasy game that simulate virtual reality on a personal computer. The play system goes beyond the three dimensional visualization of *Castle Wolfenstein 3-D*.

The player can look up and down

spectively. A sound board enhances game play by producing a heartbeat, footsteps and the sound of flowing water. Look for a review of *Underworlds II* sometime this semester.

PC movie making

If you ever wanted to produce your own movies or create your own stunts, but could not fund such an elaborate project, then I have a program for you.

The Disney people have released a program called *Stunt Island*. This novel program allows the underprivileged an opportunity to create their own movies and stunts.

Players chose locations and equipment from a vast library of scenes and hardware. A sound card allows music and sound effects to be added. *Stunt Island* is scheduled for the next issue of Data Technology.

THE Crossword

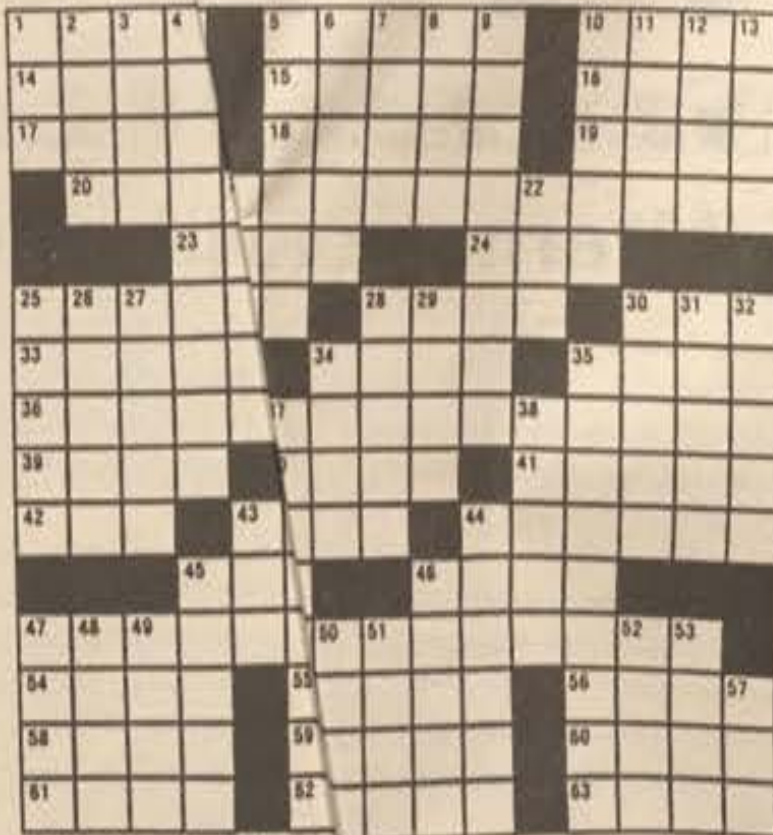
by Herbert E. Smith

ACROSS

- 1 Booster's statement
- 5 Area of Borneo
- 10 — au Rhum
- 14 Aborigine of Japan
- 15 Camera of fisticuffs
- 16 Novelist O'Flaherty
- 17 Mr. Connery
- 18 King of Tyre
- 19 Mr. Guthrie
- 20 What spies are after
- 23 Possessive
- 24 Feel remorse
- 25 Existentialist
- 28 Air channel
- 30 Tub
- 33 Inscribed
- 34 Dupe
- 35 Pilaf grain
- 36 Cabinet officer
- 39 "The — in Winter"
- 40 Butterline
- 41 "— comes back to..."
- 42 Always to poets
- 43 River to the Danube
- 44 Sacred songs
- 45 100 square meters
- 46 Equal
- 47 Bulletless shell
- 54 Racing sled
- 55 Hautboys
- 56 Palo —
- 58 Yoked beasts
- 59 Medical prefix
- 60 Speech part
- 61 Cowboy milieu
- 62 Singer John
- 63 Reproach

DOWN

- 1 Dance step
- 2 Mortgage
- 3 2-toed sloth
- 4 Smokeless powder base



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ANSWERS



- 5 Ball
- 6 Jimmy of tennis
- 7 Whirring sound
- 8 Amo, — amat
- 9 Self-government
- 10 Loud noise
- 11 Eng. river
- 12 Certain European
- 13 Minor prophet
- 21 Siren
- 22 Hint
- 25 Bog's cousin
- 26 Mr. Shaw
- 27 Chopper part
- 28 Entryway
- 29 Trademark
- 30 — pneumonia
- 31 "In — sea every man is a pilot"
- 32 Snitches
- 34 Anatomical tissue
- 35 Slowing agent
- 37 Missile part
- 38 Certain
- 43 Irritate
- 44 Self
- 45 About
- 46 Wing: ph
- 47 Tool
- 48 De — (element)
- 49 Matures
- 50 Son of Adam
- 51 Put to flight
- 52 Incandescence
- 53 Ornamental case
- 57 Can. prov.

"POWERFUL."

Gene Siskel, SISKEL & EBERT

"AUTHENTIC. Uncompromising."

Roger Ebert, CHICAGO SUN TIMES

"INSPIRED."

Dave Kehr, CHICAGO TRIBUNE

"AN ANSWER. Alive. Grand. The intentions are superb."

Stephen Hunter, BALTIMORE SUN

"STIRRING. A powerful odyssey. A heroic triumph."

Desson Howe, WASHINGTON POST

SOUTH CENTRAL

OLIVER STONE PRESENTS A WOLFGANG PETERSON FILM

WOLFGANG PETERSON FILM A WOLFGANG PETERSON PRODUCTION "SOUTH CENTRAL" QUEEN PULVER AND CHARLEMBOLD STARRING TIM THOMAS AND STEVE VETTER

CHARLIE LIEBERMAN OLIVER STONE MICHAEL SPIELBERG BRAD DUKERT STEVE ANDERSON MICHAEL BLANK

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CHARLIE

Loaded Weapon 1 bottoms out



Mike McGrath
Avion Movie Critic

Loaded Weapon 1	
Starring:	Emilio Estevez Samuel L. Jackson
Rating:	★★
Length:	1 hour, 15 minutes
Location:	United Artists Cinemas 4-9

I am sitting at home waiting for my roommate to do what he does best, which is to give me ideas for my movie review. Well, he came through yet again. Picture this: You're sitting quietly in your room and wham, there is an anvil in the middle of the floor.

The exact same thing that falls on the head of the Coyote in the Road Runner cartoons is apparently a conversation piece to some. He uses this hunk of metal to shoe horses.

My question is this, "How are you going to fit a horse in the dorm room?" I mean, dorm rooms are not quite as big as stables. This little occurrence had me all set for the release of *Loaded Weapon 1*.

Unfortunately, it did not live up to the comedic expectations of *Animal House* and all those *Vacation* movies. This movie stars Emilio Estevez and Samuel L. Jackson as two cops in California who are out to stop a drug smuggling ring. Of course, they are try-

ing to make fun of the *Lethal Weapon* movies, but they also attempt to poke fun at everything else. This is where I think the movie went wrong. There was no focus, just a series of short scenes that wanted so much to be funny.

At one point in the movie, they attempted to parody a comedy. When you make a parody of a serious movie, that is funny. But when you parody a comedy, isn't that stealing material?

Now, I don't mean to say that there were not any funny moments in the whole movie. On the contrary, there were appearances from a wide variety of people who I think saved the movie. Unfortunately, I looked for something that paralleled the *Naked Gun* genre, if you will.

If you see the ads and the movie, you will see a problem. There are scenes in the commercial that aren't in the movie. I have counted two so far. This gave me another problem. The movie was too short. It lasted

about one hour and fifteen minutes. If you can't get an hour and a half out of a movie, why make it? I am lucky I don't have to pay for this one.

Overall, I think the movie lacked originality and scenes that made me laugh for more than a minute. On the up side, there are some rare scenes that show some comedic thought. If you happen to be a ridin' into town to see a funny picture, *Loaded Weapon 1* is not as funny as the commercial says. If you're in the mood for a star studded cast, I reckon you'll take a liking to this one. If you're just moseying around town and you step in some pucky, don't blame me, it's my roommate's fault.

★★★★ - Can't miss!

★★★ - Worth watching.

★★ - Wait until dollar theatre.

★ - Read a book instead.

Faith comes out on home video

By Arie Muller
Staff Reporter

Faith is story of a young girl who loses her parents in a tragic air accident. Her dream of becoming a professional dancer seems pretty much shot.

She becomes a ward of the state and finds herself placed in a rather screwed up foster family.

Soon she finds out that the foster family and her social worker are dipping into the government pork barrel (translated: taking kick backs).

But Faith does not stay there long. She promptly escapes to the equally screwed up streets of L.A. where ... drum roll please ... Tony the Mafia drug dealer rescues her. And everyone lives happily ever after.

Well, not quite. You see, Tony loves Faith, Faith loves Tony. Uncle Sal, Tony's "employer" hates Faith, and, well, I think you can guess the rest of the story on your own.

I compare this movie to a cross between a really soapy soap opera and an episode of "Fame." If you like really mushy melodrama, this is a movie for you. If you like watching dance routines, this movie is for you.

If not, stay CLEAR! Be advised, you've been warned. Personally, I give this movie a C. The C is for cheesy (and not that good block cheddar either, but that powdery cheese they give you at pizza



Faith received little fanfare when it was released on VHS.

The scores on the dance scenes were O.K., but not worth writing home about. The movie's only saving grace was the dance scenes which, I'll admit, were pretty good. Besides that, I think the movie is a definite thumbs down for

The Chase has little to offer discriminating movie watchers

By Mike McGrath
Movie Critic

Here's the scenario: you are at the video store and have no idea what movie you want to rent.

Suddenly, a box in the "bimbos-in-prison" section catches your eye.

You pick up the box and read about some person who is wrongly accused of a crime and how they struggle to escape.

You are so interested in this deep plot, so you decide to rent it. Now you are at home. You are watching

this movie only to find that it is some low budget attempt at a prison movie.

Instead of good acting, you get cheap actors who only seem to be getting into one shower fight after another. Then you realize, the box lied.

This is exactly that kind of movie.

I read the box on this one and it had nothing to do with the movie.

In fact, I think whoever wrote the stuff on the box was watching another movie. I don't know what the movie supposed to be, but I think the

Chase.

The movie takes place in the city of Denver. Casey Ysiemenco plays a bank robber who has recently moved into the area.

He quickly gets to business doing what he does best. Ben Johnson, no not the Olympic runner, plays the retiring cop who is trying to find this guy.

The movie is based on a true story, a fact which is backed up by some actual video footage at the end.

between these two characters. Because the movie was based on a short video, some scenes were added to lengthen the whole event.

Throughout the movie, every person who had something to do with Casey was analyzed.

It was hard to figure out what was the real plot. It seemed as if it should be an afternoon soap.

The box also promised spectacular stunts. I looked for these up until the very end.

I didn't find anything close to

nothing that even resembled a stunt.

Another interesting point is the rating. It received a PG-13 from the rating people. I am always interested in the way people determine a movie's rating.

What really disappointed me was that there were absolutely no bad words uttered by anyone.

Even worse, the only contact between male and female in this movie was fully-clothed rolling on a bed.

The violence was not bad enough to warrant this rating. I believe this

with no changes at all.

Overall, I did not like the movie even a little. It completely lacked any story focus.

There were far too many subplots in it, and that just confused this movie critic.

I think *The Chase* should just skip the video release and go straight to television. True stories do much better there.

Oh yeah, and that example about prison movies is truly hypothetical. Honestly, I have never rented a bimbo-in-prison movie in my life.

Do you want a subscription to the Avion mailed to your home?

A one-year subscription to the Avion newspaper mailed to your home costs \$15 per year for domestic addresses and \$35 per year for foreign addresses.

Fill out the following form and bring it to the Avion office, upstairs in the Student Center, with the appropriate amount of cash or check.

Name: _____

Address: _____

Address: _____

City: _____ State: _____

Zip: _____ Country: _____

Have A Happy Valentine's Day

Aerospace Society

By Joshua Mussaf

Thanks again to Kevin Speed from General Electric for his informative presentation on Special Operations Flight training. Tonight's meeting will be at 7:00 p.m. in room E-611. This evening's meeting will feature Mr. Micheal Gilbrook of the Metro Orlando Space Society.

Thanks again to all club members who showed up on Saturday for our BBQ with SEDS. A special thanks to Drs. Erickson, Samatos and Webb for providing the funds for the BBQ. Thinking about sleeping in this Saturday morning? NOT! We will be having another fundraising car wash at the Texaco station on the corner of Ridgewood and Beville.

The car wash is set to begin at 10:00 a.m. So don't party too late on Friday night!

Dues for the spring semester are still payable to Alicia. The cost is just \$5.00 for one semester and a discounted price of \$9.00 for two.

Anyone who is interested in working on the SpaceWeek committee, please talk to Matt Devitto, SpaceWeek Committee Chairperson at the end of this week's meeting. The next committee meeting is slated for Tuesday, February 23 at 6:30 p.m. in the library. Additionally, anyone interested in joining the Speakers Bureau, please see V. P. Ronald Hess after tonight's meeting.

Next week we will be hosting a speaker from Space Camp in anticipation of our trip to Space Camp on Sunday, February 21.



ERAU alumnus Kevin Speed, who now works for GE in Daytona, spoke to the Aerospace Society last week on special operations flight. Tonight, Micheal Gilbrook of the Metro Orlando Space Society will address the Society.

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.

AED

By Becky Kencik

A special congratulations goes out to our new Vice President, Yvonne Gallo. Good luck to our new pledges: Kerry Ahearn, Jeanette Blodgett, Shellee Harper, Suzan Kim, Danielle Rowe and Alisha Thompson. The best is yet to come.

Delta Chi, we do not know where you were on Friday but we had a great time at your house. Next time

be prepared to make more punch.

Sigma Pi, even though the Bills lost we still had a great time (like always). Sorry our Pledge Danielle struck out (not only at our softball game but also that night at the party). Thank God you guys know the correct quantity of punch to provide (unlike Delta Chi).

Sigma Chi, we are looking forward to our social with you.

Fair warning...read the above paragraphs carefully.

Paintball

By Justin Andrews

On Saturday February 6, a company of six from the ERAU Paintball Club ventured to Orlando to partake in a day's adventure of paintball. The day was filled with many exciting games in which two teams battled for possession of the others' flag station. Armed with special air guns and plenty of water soluble paintballs, the two teams met in the field. Though the games were not all won by the team the club par-

ticipated on, everyone had a lot of fun. There were plenty of tall tales going on after the day's events were over.

The Paintball Club tries to play once or twice a month. Our club meets every other Thursday at 7:00 P.M. in room E609. Our games are the Saturday after the meeting.

If you have any questions about the club or the sport, please contact Justin Andrews at box 8596 or through Student Activities. Our next meeting is Thursday Feb 11. All are welcome.

AHP

By David Macko

Well it has been a couple of weeks now and a lot of work has been accomplished by all of the brothers of Alpha Eta Rho. We had a couple of good parties and, we now have about six pledges. To all of you possible new members, work hard and trust the brothers and we won't let you down.

Public relations with the local high schools is going well. Thanks to Rich, Scott, and Chris for putting in time to get in touch with the local schools and arranging possible presentations. This project should go

Remember, we're still playing tackle football every Sunday so come one, come all 'cause it's all out! The blood has been flowing onto the field. Casualties as follows: Joel with a bloody nose, which provided him with some facial war paint. Belter and Reid who proved that two heads are once again better than one. I think?! Stitches all the way around guys.

The races are upon us. Yes, the rednecks are here. Remember, to open all the booths we have, we need everyone there. It's a good time if everyone shows.

Spring Break is a comin' so don't work yourselves too hard boys, and

Windsurfing-Sailing

By Bryan Rosko

Happy Happy, Joy Joy! The Embury Riddle Windsurfing and Sailing Club is back in action for '93! If you're interested in having lots of fun in a relaxed atmosphere, this club is for you. We offer exciting sailing and windsurfing action throughout the semester. We sail out of the Halifax Sailing Center on Beach St. - where the waters run crisp and clear from the hills of Ormond. Check out our glass case across from the barber shop in the UC for schedules and directions. There are lots of fruitful and stimulating activities planned this semester including: parties, clinics, BBQs, lessons, parties, races, parties, and even a trip to Cape Hatteras!

At this year's first meeting the main issue discussed was that of recruiting new members. We don't care if you're a member of the America's Cup team or someone

from a geographically deprived area who has never seen water. Everyone is welcome to stop by and check us out. If you are a dorm dweller with lack of transportation, feel free to call Mark Severson at 226-7499 for a ride. Make sure to ask Mark about getting on our mailing list so we can keep you up to date on meetings and events.

Along with the new year, we inaugurated new officers. After a very close election, five dedicated individuals stood on top. They are: Mark Severson - President; Gero von der Wense - VP Sailing; Mark Shannon - VP Windsurfing; Layla McLendon - Secretary; and Bryan Rosko - Treasurer. Our goal this year is to share the fun and benefits of the club to as many people as possible. We're looking forward to some great days of sailing and plenty 'o parties. So whether you simply like peaceful boat rides, or you want to experience challenging intercollegiate racing, drag your hull down to the Halifax and see what you're missing.

Screaming Eagles

By Trey Kimler

There will be a meeting of the Screaming Eagles Model Airplane Club tonight at 7:00 P.M. in room B-513. We will be discussing the upcoming Static Display, which has been tentatively scheduled for February 17. We need members to help come up with fliers and announcements and to help place these around the campus. We will

also be talking about the other upcoming events, such as another static display, a balsa glider contest and one or two cookouts at a nearby flying field.

We would like for all those interested in flying Radio Control to come to this meeting, even if you do not know how to fly as yet. There are several capable instructors already involved who are very willing to help. If you already know how to fly, come on out anyway. We look forward to seeing you there!

Naval Aviation

By Eric Heinzer

The Naval Aviation Club would like to take this time to welcome back returning members, and extend a special welcome to our new members.

The Club is looking forward to

our members. Upcoming events include: guest speakers from the Navy community, possible F-18 simulator time, intramural softball, and possible field trips.

If you have any questions, please feel free to contact Eric Heinzer at box 5846 or through Student Activities. Our next meeting is February 10th at 7:30 P.M. in A109. All welcome - FLY NAVY!



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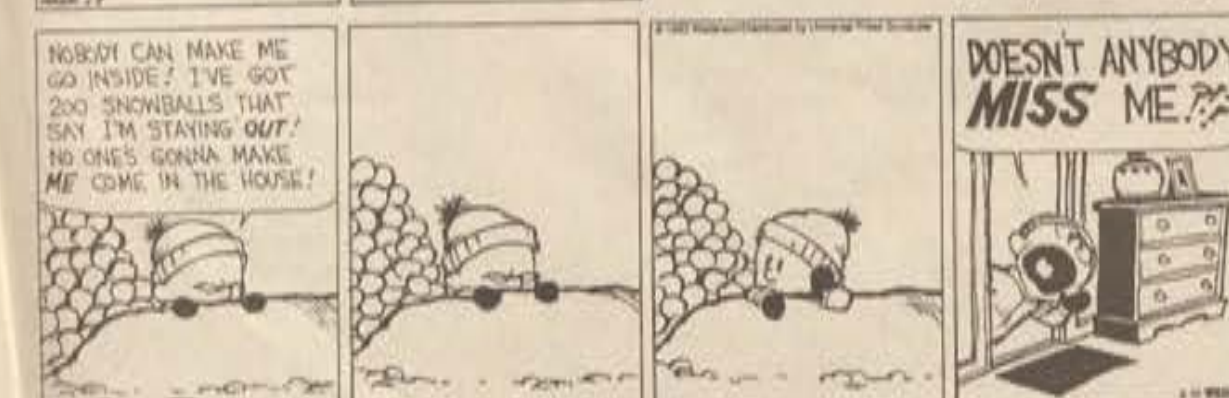
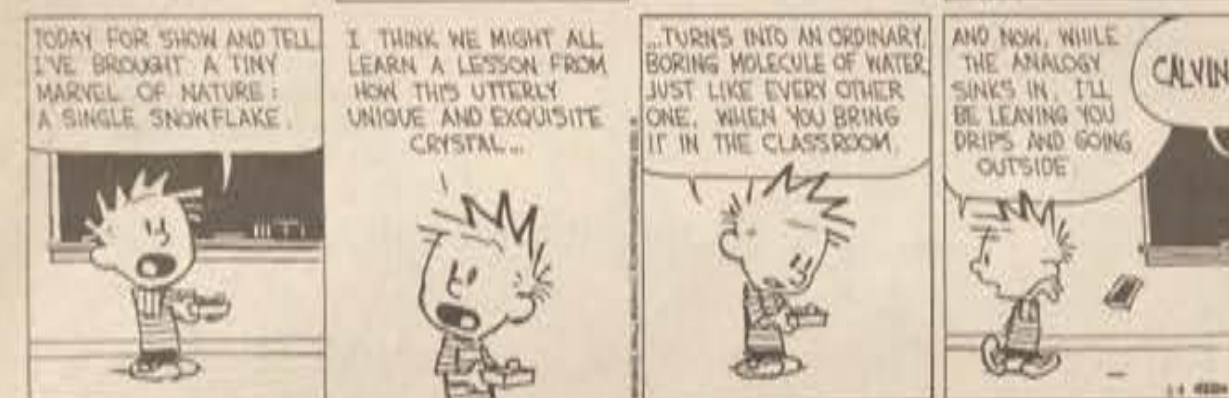
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Calvin and Hobbes

by Bill Waterson



Outland

by Berkeley Breathed



Far Side

by Gary Larson



"One good thing about living in this age — all the caves are brand new."



"What the? ... Waiter! This looks like a little slice of heaven!"



For several hours, confusion reigned.



Alien corner cafes, where sometimes dreams do come true.



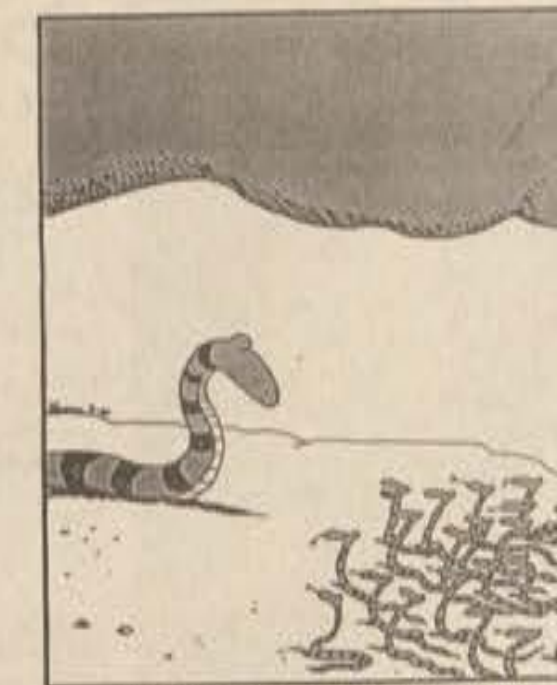
Just as Dale entered the clearing and discovered, standing together, the Loch Ness Monster, Bigfoot and Jackie Onassis, his camera jammed.



"Don't touch it, honey ... It's just a face in the crowd."



Be a virus, see the world.



"No, really, Mom — who do you like best?"

→ Autos for sale

BUYING A VEHICLE?

Buy from a Riddle Alumni. New and Used Cars and Trucks / Program Cars. Contact Mark P. Mosano at Gary Yeoman's Ford executive car sales, 947-4453. Bring this ad!

The only take for you to buy for Bike Week. Don't be caught on some wimpy - non-British bike. 1967 500 B.S.A. single - new Chain, Bar, oil seals, pipe and muffler. Plus a good PL, tube - \$800. Call John @ 257-5107.

For Sale - 1983 Olds Cutlass Class. Auto, AC, 4 door, Brown, 103K miles, good transportation! \$700 obo. Call Danny or leave message. 274-4974 ERAU box 5397.

Chevy Camaro '85. V8 auto, air, power windows, high miles, new paint and overhauled. Excellent condition. \$3000 obo. Call 239-7086.

'75 Buick Century Special. Beautiful red. No rust - a must see car. \$850 obo. Call Matt at ext. 6862 or message at 672-9785.

1986 Suzuki Savage. Excellent condition. Must Sell! Includes: Saddlebags, bike cover, and shop service manual. Contact BRC at 767-8454.

→ Roommates

Available immediately! Room for rent in South Daytona house. Move in now and pay 1/2 rent for February. Owner pays all utilities. Regularly \$250 per month (\$125 for Feb.) Prefer student who will stay at least a year. Contact Kim or Ray @ 756-8560.

Need a place to live? 2 bed, 2 bath apt. Island Club. Partially furnished \$292.70 + 1/2 util. Washer and dryer, tennis courts, jacuzzi. Must be quiet, clean, nonsmoker, trustworthy. Available May 1st; 1 yr. lease. Call Chris @ 767-0739.

Students - Pay no rent. Why rent when you could own a spacious townhouse? For sale: 2 bedrooms, 2 bath townhouse. Two levels, full appliances, pool, cable TV, water and trash removal all included. Located only 3.5 miles from ERAU, 1 mile from shopping and I-4. More Details? Call 788-4343.

Room for rent: 3 bedroom Apt. in Breakers Apt. complex. Need 1 roommate. \$238 a month + 1/3 utilities (Elec. cable). Other 2 roommates rarely there. Call 252-2243 after 6:00 p.m. Ask for Kevin or Rich.

Room for rent (summer). \$162.50 + 1/3 utilities a month. Nice 4 bedroom house in Port Orange. 10 min. from school. Call Nick @ 322-0082.

→ Misc. for sale

Furniture for sale: Waterbed - \$150, Recliner - \$40, Couch - \$75, End table - \$15. Call 760-9968 or ext. 6553. Ask for Joe Candron.

For sale Cannondale SR500 Black Lightning; like new. \$425. RC cars, associated, Tamiya; Best of everything. Lot of parts! \$275. Cellular phone \$125. James 255-9243.

Wahburn G-IV electric guitar, AMD and ACC. \$350 OBO. CB 68" surfboard with bag \$250 OBO. 9mm Ruger P-89 brand new \$350 OBO. Contact 767-4806.

\$100 OBO 17" GE color TV, good condition, rarely used. \$35 OBO 4 drawer wooden study desk, very good condition (never used). \$25 OBO 4 drawer filing cabinet w/ vertical hanging file system. Contact Jojo 258-7603 or box 2084.

Sporty's electronic flight computer for sale. Need cash \$50. Ask for George 226-7340.

Trip to the Bahamas for two 3 days/2 nights. Travel anytime from now till June. Best offer will be taken. For more info call Raffi at 322-2729.

Queen Size Waterbed w/ heater + BBtrain equipment - great condition \$800 obo. John @ 760-2743.

Refrigerator/Freezer, almond, 16 cubic feet, air-frost freezer. Superb condition - clean. \$280. 672-6801.

For Sale: Ruger P98 9 mm. Brand New, used 3 times. Includes: Case, 2 extra clips, holsters, cleaning kit, 150 rounds. \$400. Contact Lee @ 226-7494 or Box 6964 for appointment.

Boos Heavy Metal Pedal - \$25. 100 Watt car amp - \$25. G.E. portable - CD-Tape-Radio Box \$80. 6" West Wind surfboard \$100. Call Nick @ 322-0082.

Downtown Used Furniture. 9000 sq. ft. Showrooms: Tues-Sat. 10-5:30, 406 N. Beach St. Daytona 239-9884. Buy and sell.

Super-Nintendo Entertainment System. Includes Control deck, 2 controllers, organization center, 4 games, and hint books. Only \$250 firm (over \$375 value). Call Steve @ 226-6576.

Flight Headsets and Accessories for sale. Call Sean 226-7334 or box 6798.

Bed for sale. Queen mattress & Box spring only \$50. Call Dennis @ 258-2890.

For sale. Audio-com intercom and Telex SX5 ProII headset. Both \$250. 441-8789.

Sofa - Blue/gray, good condition. 3 cushion with sleeper. \$125. 760-3490.

Dorm refrigerator - brown. Sears refrigerator/freezer, 3.8 cubic feet and like new! \$80 or OBO. Microwave microwave. It is small but the price is right \$50 OBO. Call Doug @ 274-2876.

CLASSIFIED AD POLICY

- Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with 35 word limit.
- All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- Commercial advertising is available through the Avion advertising department, at 226-8051.
- Classified advertising is carried out by filling out a classified ad card in the Avion office.
- Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- Only paid ads will run for two issues and may be renewed by filling out another classified ad card.
- No classified ads will be accepted over the phone.
- For more information, stop by or call the Avion office at (904) 226-6049.

Cannondale Series 3 Roadster, excellent condition, serious inquiries only please. \$425 OBO. Waterbed Queen size, wood headboard, heat regulated \$100 OBO. Cobra 40 channel CB, excellent condition. Call Paul @ 255-9574.

For sale: Camera - Canon EOS Rebel. 80-200 mm lens, case and flash. \$425. Fish tank - 20 gallon with all extras. Filter/lamp/heater/airpump/hood/gravel/wooden cover, 10 inch Oscar + other fish. \$175 OBO. 756-7965 - Gary.

Selling cruise to the Bahamas. 4 Days/3 Nights plus two nights in West Palm Beach. Retails for \$2600, sell for \$900 OBO. Call Bryan @ 322-2701.

The water ski Club/team is looking for beginning or advanced water skiers. If interested contact Wally @ 767-4806 or Mike @ 322-0330.

Tailwheel flight instruction in Piper Super Cub. Flight instruction for Private, Commercial and BFR available in normal factory birds. Call Jim @ 760-1630. Car repairs - if you need help with your car, give me a call. ASE certified mechanic. Call Patrick at 255-2132.

→ Miscellaneous

14K Gold Bracelet found last week in parking lot behind Student Center. Call to describe and it's yours. Call Joe at 441-6211.

Flight instruction - Private, instrument, commercial, BFR's, JCC's. Very Low Rates. Call Mike McEliff (CFII) for info. 767-1707.

Flight instruction - most types given, reasonable prices. Phone 255-2264. Leave message.

TO SIL,
Be my Valentine you hunk!
LUV YA JOK

TO THE STUDLIEST MARINE WITH BIO CLASSES,
Hey chicken legs, I just want to tell you that I want your delicious butt.
LUV DOOPY

MARILYN,
Happy 21st Birthday!!
WE LUV YOU IN EAST & NYC POSSE.

To all you cowpokes out there, I want to form a country line dancing club. If you are interested, musing on over to the mailroom and drop me a line at Box 8585. Youellah! Chris.

I'm back. I'm still the only member of my motor scooter club. Looking for prospective pledges. Must be over 20 and still a virgin. Reply to Howard at Box 8397.

HOWARD
These personals will continue until you show us the R.O. machines.
ROOM 217

7803
I'm too lazy to use your box this week. Just thought I'd say HI!
7808

SOJ MAN!!
Thank you for rescuing me lately. The visitor will be long gone this weekend, and you are in for the surprise of your life. (No hints yet!) Keep smiling! I love you -
THE WOMAN WHO LIVES IN YOUR SCREEN.

MARCY,
What were you doing in that car Friday night?

BUCKY (PIS),
We can't wait to see how pure you are. What ever you are hiding from us we will find. When's the next study session?
YOUR FAVORITE BETTIES.

TO SARA,
With no "h" from Pink Dorm rooms. I hope you are feeling study. Please be my Valentine.
SINCERELY FOR.

TO THE BEAUTIFUL BROWN EYED RA ON 2nd SOUTH
Seeing you makes my heart skip a beat. Do you have a Valentine?
CURIOUS

TO BEV
I can't hide my feelings for you any longer. Last weekend you brought out the real woman in me. Please come to the Galia meeting.
LOVE MINDI

JENNIFER
Just wanted to wish you a happy Valentine's Day and tell you that you are absolutely gorgeous.
LOVE DAVID

EMO:
What, for the love of God, is your problem?
CHIPS

Marilyn, Happy 21st B-day. We love you.
1ST EAST.

LAURA
It's been a trip having you as a roommate for 2 years. Have fun in Ca. I'll miss you.
1ST. ROOMIE

PUSCART
I'm not going to have time to see you in the daytime with my new job so, let's make the best of the night! I'll always love you!
KITTY

PATRICIA MALLOY
Happy Valentine's Day! This will probably get to about March though. Just wanted to say Love Ya!
JIP

Shannon,
What is and who could never be.
?

JOHN
I've been watching you on campus and don't have the guts to say "hi" and get to know you. I know you work in the Avion so, I know you will see this. Please write in the next issue.
AROUND

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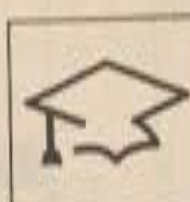
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Gravity

(continued from page B2)

slightly. However, Weber's device and all that have followed since were not sensitive enough to detect a gravity wave.

Recent calculations by theoretical physicists, who use Einstein's equations to predict physical consequences of cosmic events, estimate that gravity waves may move the detector by a distance equal to one one-thousandth of the diameter of an atomic nucleus. The vibrations of the Earth complicate the problem of distinguishing a gravity wave disturbance from an earthquake on the other side of the world.

Researchers at CalTech, under the persuasion of theorist Kip Thorne, and researchers at MIT, under the direction of Ray Weiss, have decided to devote funds to the "Laser Interferometer Gravitational Wave Observatory" (LIGO).

LIGO is a device that will use a split laser beam to measure the smallest shift in the distance between test masses approximately 2.5 miles long, when a gravity wave passes by the Earth.

With one detector set up at MIT and one at CalTech, the researchers could tell from where in the sky the gravity wave came from. Since the

wave would have been created by a violent event, the researchers could notify optical observatories to point their telescopes toward the event. Gravity waves would be the messengers of fantastic collisions, supernovas and other events we can't even imagine right now.

Once Einstein thought that gravity waves were just a result of his relativity theory, but today theorists and funding agencies, including the National Science Foundation, believe that these bizarre ripples in the even more bizarre concept of spacetime are worth substantial investment.

They, as did Einstein sixty years before, believe that the understanding of gravity waves will pave the way for an incredible understanding of our universe—how it exists now, and perhaps more importantly, how it first came to exist.

The information contained in this article was gathered from the following sources, which can be found in the Jack R. Hunt Memorial Library:

Wheeler, Archibald, A Journey Into Gravity and Spacetime, New York: Scientific American Library, 1990.

The Wave of The Future—Searching For Gravity Waves by Goldsmith, Mercury, March/April, 1991, pg. 40-51.

Mahin, "In addition, we plan to focus our efforts even more on the growing International market in 1993, which should give us yet another boost."

Beech's light jet, the Beechjet 400A, offers the best combination of speed and comfort in its class of aircraft.

The company's Starship 2000A, the fastest aircraft in the legendary line of Beech jetprops, makes a statement about the customer and the customer's company.

The King Air line — from the entry level C90B, to the improved Super King Air B200, and the Super King Air 350 — offer superior overall capability, unmatched utility, and more performance options than any small jet competitor.

Beech Aircraft, a unit of Raytheon Company, builds, markets and supports a wide range of piston-powered, and turbine-powered aircraft for the world's commercial, regional airline and government markets.

Mirror

(continued from page B3)

The beam of reflected sunlight created a weak spot of light on the ground. Cosmonauts Gennady Manakov and Alexander Poleschuk, looking down from the Mir, "observed a section of our planet's surface illuminated with sunlight," the ITAR-Tass news agency said.

Scientists had said the spot was expected to measure about 2.5 miles in diameter. Since the banner was orbiting the globe, the spot moved quickly across Europe toward the former Soviet Union.

After the experiment, the disposable banner was ejected from the cargo ship, Blagov said.

The experiment could be the first step in creating a revolutionary stellar spotlight out of several such banners. Such a spotlight could be used to light up nighttime work, rescue operations, blacked-out cities or sun-starved polar areas.

The main purpose of the test was to see whether the sheet could be opened using centrifugal force and then maneuvered.

Freedom

(continued from page B3)

approach to exploring the universe, but it would also hamper the technological and medical discoveries designed to benefit the quality of all humankind."

Heflin said Clinton's budget director, Leon Panetta, opposed the space station while serving in Congress and "apparently has brought the opposition to the White House."

Alabama's other senator, Democrat Richard Shelby, said a attempt to eliminate the space station would be opposed.

A spokeswoman for U.S. Rep. Bud Craner, whose district includes Marshall, said the earlier report not necessarily mean the space station would be axed.

"The administration is putting everything on the table to address the deficit and nothing is excluded from consideration," Cindy said, "but this does not mean space station funding is going to be cut."

"The space station is a stone for future work," Le "Cancelling it would have effect on the economy in Alabama."