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AERONAUTICA

Dr. Katoot completing research on proton microscope

by Frances L. Cozza Aeronautica Editor

Embry-Riddle Aeronautical University, project of a proton microprobe. Dr. Katoot, of Embry-Riddle, and Dr. Walker, of the University of Florida, Gainesville, have invented the Compound Superconducting noted Dr. Katoot. Solenoidal Proton Microscope; a device that currently in use.

scientific and medical uses. Past use of a proton microprobe at Oxford University in England was to analyze Alzheimers tissue the aircraft they propel would be safer, samples, it established the focal deposits of

aluminum and silicon in at least 90 percent of all the sample tissues. In addition to the aforementioned deposits, it was able to detect compounds such as iron and calcium and trace levels of titanium,

vanadium, manganese and chromium electron microscope was a major around the alumium/silicon core. Dr. Katoot breakthrough. The problem with the suspects that there is a correlation between the presence of Titanium

and other trace minerals in brain cells, and the onset of Alzheimer's disease. Researchers note that it is possible to use the proton microscope not only in the elemental analysis of tissue but also for high energy ion beam radiation therapy of different disorders, such as cancer.

Work in computers is expected to improve because of the proton microscope. "We are currently in great competition with the Japanese to build supercomputers," Dr. Katoot said. "Present technology allows us to fit perhaps 100,000 integrated circuits because they do not emit nearly as much

we have no way of looking into the circuit electrons. and microchips, and cannot find flaws until late in the production process." The proton University the Florida Institute of Technology and the microprobe will shed light on small breaks England has a University of Florida have committed Ph.D. or imperfections early enough in the working model of a level scientists, graduate students and manufacturing process to save time and sophisticated equipment to a research money. It may be the only microscope in the world that will enable production workers to see into these incredibly small areas and produce smaller and smaller computers, currently in use,

Currently electron microscopes are used will allow researchers to examine a point to "weld" Titanium to the blades of a jet 100 times smaller than electron microscopes engine to make the surface smooth and even. But the greater resolution of the The proton microprobe has a variety of proton microscope could allow a much smoother and therefore stronger layer of Titanium. This could mean the engines and

"As more proton microscopes become

"We are witnessing a major

breakthrough, even bigger

than when the electron

microscope was invented ...

available. replacing the olectron instruments, more uses for it are expected," says Dr. Katoot.

development of the

electron microscope is that electrons are very light, so as soon as they start encountering the surface of a sample, they tend to scatter in many directions. This causes the emission of radiation that obscures measurements. It is necessary to scan several times to get the desired information, and even then, the resolution is

-Dr. Katoot

But protons are heavier than electrons, notes Dr. Katoot, and they are less distracted by the surface of the sample being scanned. This makes protons go directly to the desired spot, yielding clearer resolution onto an area about a centimeter square, But unwanted radiation as in the case of

"Oxford proton microprobe that is a great improvement over electron microscopes said Dr. Katoot, His opinion is backed by a recent study that shows even though the Oxford model is limited by older technology, it has distinct advantages over conventional electron microprobe technology.

"But the Oxford instrument is limited in its ability to focus," Dr. Katoot pointed out. "Early results in our research indicated that our invention will give at least 10,

perhaps 100 times higher resolution than the Oxford model. We have developed a design that incorporates superconducting solenoids as focusing elements instead of quadropole magnetic lenses used in the Oxford instrument. This allows for greater current flow, which means a point 25 times smaller than the Oxford model may be examined. A better analysis is possible this way," he added.

The next generation of microprobes will definitely use protons rather than electrons," said Dr. Katoot, "We are witnessing a major breakthrough, even bigger than when the electron microscope was invented. And I'm excited to be a part of it."



Dr. Katoot, the researcher...

The proton microscope has a variety of valuable uses for today's technology. Dr. Katoot and others are making a contribution to exploring the universe.

> proton microprobe works try to imagine this; a nuclear accelerator speeds up protons, enters into a beam line, then goes to a super conductor solenoidal, where it begins to go through several focusing

The proton microprobe has been around for four years. The electron microprobe has been around for twenty years. By using the proton microprobe, Florida State University is conducting research with numerical calculations to understand the beginning of the universe, and why the universe is structured the way it is.

Dr. Katoot has received several awards for his research and development in the

Institute of Neurological and Communicable Disorders; for his research in quantum gravity from the Technical Research and Development Authority and the Department of Energy for other research projects.

The three year, three phase project is being funded in part with \$500,000 from the National Institutes of Health and approximately \$190,000 from the State of Florida. Additional monies were made available by Nanoptics, Inc.: Phase I more than a year of computer-based research (completed), Phase II construction of the working prototype (to be completed within the next month or so), Phase III - will lead to the full-scale

To get a clear understanding of how the proton microscope from the National commercial production of the microprobe. uwait Air Force now arme ST. LOUIS - On October 8, McDonnell Douglas of the people of Kuwait, the United States Navy and the on its first flight, said the engines enabled the aircraft to

32 single-seat and eight

two-seat fighters..."

conducted a rollout ceremony at its St. Louis plant for folks here at McDonnell Aircraft." the first of 40 F/A-18 Homet fighters Kuwait is buying

presented the two-seat F/A-18D, which hore Kuwait Air Force markings, to Brigidier Dawoud Al-Chanim, F404-GE-400 engines on current commander of the Kuwais Air Force and Air Defence. Hornets, Also present to receive the aircraft on behalf of Kuwait were His Excellency Shaikh Saud Nasir Al-Sabah, Kuwnit's ambassador to the United States, and Paisal Al-Dawoud, under secretary of defence for Kuwait.

Capellupo told a crowd of some 250 that the rollout of Kuwait's first Hornet was "especially meaningful" because the aircraft "affirms that Kuwait has rebounded designed to improve the Hornet's time-to-climb, as important factors that favored the Hornet's selection. from the tenuous position it found itself in just a few months ago. That this aircraft is here today, on

unique in that it is the first production F/A-18 to be John P. Capellupo, president of McDonnell Aircraft powered by General Electric's new F404-GE-402 o., a division of McDonnell Douglas, officially Enhanced Performance Engines (EPE). These engines eight P/A-18D two-seat Hornet fighters (plus logistics can generate up to 20 percent more thrust than the and training support) from the U.S. government under a "Kuwalt is purchasing

The EPE's will become the standard powerplant for U.S. Navy and Marine Corps F/A-18's beginning in 1992 and will power all export F/A-18's.

supersonic, and low-altitude, high-performance.

schedule, is a testament to the hard work and dedication was at the controls of the EPE-powered Kuwait F/A-18 development and production of the F/A-18s for Kuwait.

accelerate "much more quickly" than previous F/A-18s. Capellupo said the first Kuwait Air Force F/A-18 is The Kuwait Homet also took less time and distance to Force in January 1992. The remaining 34 aircraft will get to a speed of Mach 1.6.

Kuwait is purchasing 32 F/A-18C single-seat and September 1993.

contract valued at approximately \$1.6 billion.

The Kuwait Air Force selected the P/A-18 as its fighter of choice after an extensive flight evaluation in 1988. The

Kuwaities cited enhanced safety, twin engines, maritime The EPE, in the 17,700-pound thrust class, was capability, high reliability and multimission capability

After Iraq invaded Kuwait on Aug. 2, 1990, the U.S. McDonnell Douglas test pilot Dave Desmond, who Navy directed McDonnell Douglas to continue

The first six Kuwait Hornets are on schedule for delivery by the U.S. government to the Kuwait Air be delivered over a 21-month period that ends in

The F/A-18's are intended to serve as a front line of defense for Kuwait and as replacements for the Kuwait's Air Porce's fleet of A-4KU Skyhawk attack aircraft. Kuwait purchased 36 McDonnell Douglas A-4s from the United States 20 years ago.

McDonnell Aircraft manufactures the F/A-18 strike fighter in St. Louis where about 7,000 people are associated with the program, Principal subcontractor Northrop Corp., of Hawthorne, Calif., provides the center and aft fuselage.

McDonnell Aircraft has produced 1,046 F/A-18s for the U.S. Navy and Marine Corps and the air forces of Canada, Australia and Spain.

U.S. Border Patrol turning to helicopters

U.S. Border Patrol is turning more toward helicopters rather than aliens crossing into the United States, agency officials say,

Helicopters can more effectively cover ground patrols along the vast and rugged terrain along the U.S .-Mexico border, border patrol officials said.

'It's just more effective. They are much easier to land, and you can't extract people from an area with fixed-wing aircraft," Dake Austin, a Border Patrol spokesman, said of the increased emphasis on helicopters.

aircraft fleet in Texas is Doug miles of border," Keim said.

SAN ANTONIO (AP) - The Keim, chief of the agency's air operations in El Paso.

"The rotary-wing aircraft is fixed-wing aircraft in its battle more flexible in the interdiction of against drugs and undocumented aliens and narcotics," Keim told the San Antonio Express-News.

Although the Border Patrol would not reveal the size of its air border, Keim said airplanes make up about 60 percent of the force.

Within two to three years, Keim wants helicopters to make up threefourths of the fleet. Some airplanes

will remain, he said. "Fixed-wing aircraft still has a function. It's still appropriate to use fixed-wing (aircraft) when you Overseeing a change in the are covering sectors with up to 600

Much of Texas' borderland would start at \$1,5 million, he said. consists of large expanses of unsettled terrain, from south of El Paso and through counties along the Rio Grande to the lower Valley

Kelm said the use of fixed-wing aircraft allows the Border Patrol to force along the U.S.-Mexico make large surveillance sweeps over those types of areas in shorter periods of time.

Helicopters are being purchased by the Border Patrol from the military and other government agencies where a surplus exists, Keim said.

We're saving the taxpayer money," said Keim, noting that helicopters purchased from the can come down to a touch down, million each. If new, the craft walking away," Keim said.

The cost differential between airplanes and helicopters is minimal, he said.

Border Patrol airplanes include the Cessna 182, Cessna 206, PA-18 and Piper Cubs. Helicopters in the fleet include OH-6As, Hughes 500s and the Aerospatiale, more commonly called A-Stars.

Airplane pilots may argue that a fixed-wing craft is more safe, but Keim said the lack of high speed and the ability to control motion makes a strong case for the safety of a helicopter.



"Porward speed kills you. If you Whirly-bird population soon to increase... milliary cost about \$600,000 to \$1 you have lot better chance of The UH-1 is a possible purchase from the military for the Border Patrol.

Boeing speaks with Congress about environmental concerns

WASHINGTON, D.C. - A senior Boeing (General Agreement on Tariffs and Trade) for us to compete with a subsized Boeing airplanes must be certified twice, official told members of Congress today that and a level playing field." Congressional and Administration support are needed to protect the global

Boeing Commercial Airplane Group, told a enterprise endeavor in the meeting of the Congressional world today." Competitiveness Caucus that Boeing is facing four issues of popular concern: exporter, Boeing buys European subsidies, multiple certification nearly \$10 billion worth of requirements (for the airplane), health care goods and services each costs and the economic impact of year from suppliers in 49 environmental regulations.

"Recause we (Roeing) sell aircraft subsidized competition by Europe's airplane type by the U.S. Federal Aviation throughout the world -- we are the country's leading exporter -- we are vitally concerned consortium,

resources to develop the new 777 airplane is competitiveness of America's aerospace enormous, in the billions of dollars. "We are engaged in a tremendous undertaking," he subsidy rules, Dean D. Thornton, president of the said. "I believe it is the biggest free

As the country's leading

states. He urged Congress Addressing the subsidy issue, he said, to protect this industrial base from noted that formerly certification of a new

He said the Boeing commitment of undercut our prices and buy airline allegiance -- all with government money." The U.S. has taken Airbus to GATT

He said, "Congressional support for

improved GATT rules on "Environmental subsidies, for successful regulations have gotten conclusion of the current frightfully lopsided... on case, and if need be, for U.S. trade actions to the side of paperwork." achieve a settlement will -Thornton be greatly appreciated,"

On certifications, he government-backed Airbus Industrie Administration was generally accepted by other countries. Now, he said, the Europeans

competitor who can launch new programs, once in the U.S. and agin in Europe. Our competitors, including Airbus, are also requirements. The result is added costs for all aviation products."

He urged all involved agencies of the government to work to establish only one certification process around the world, "This is a serious issue," he said.

Citing the rapidly rising costs of health care for employees -- in 1991 alone, costs rose 21 percent - he said these costs have direct bearing on the ability of Boeing - and other American companies -- to compete globally, "It's one of many cost factors government and industry cannot ignore," he

The rising costs of environmental record-

competitiveness, he said. He continued, "Environmental regulations have gotten frightfully lopsided -- lopsided on the side subject to these multiple certification of paperwork, reporting plans and documents,"

> He added, "I'd like to spend less on paperwork and more on things that really improve the environment."

Boeing, he said, is making heavy investments in solving problems, such as chemical reduction and waste minimization. "Let me assure you, we are totally committed to the safety and health of our employees and the protection of the environment.

"I ask that Congress be cautious to avoid bureaucratic paperwork and reporting and to ensure a balanced harmonious relationship between business and the environment. U.S.

Microsoft Plots the future of Windows in internal release

millions of IBM users, but Microsoft's plans for Windows are just beginning. Microsoft intends to make Windows one of the first programs to take full advantage of the 32 bit internal architecture accompanying 80486 and 80386 computers. Portable Windows is a concept that would allow Windows to operate on a variety of different computers, such as the Macintosh. Following is a description of Microsoft's plans for Windows that was obtained by this reporter-Data Tech

Since its original release in 1985, Microsoft Windows has become the leading graphical system for IBM compatible personal computers. Version 3.0, released in May 1990, was a milestone that broke the 640K barrier of the Microsoft MS-DOS operating system by running applications in protected mode, thus making it possible to develop much more sophisticated applications.

This innovation spawned myriad applications and is responsible for the huge success of the Windows environment in the marketplace showcased by the volume of graphical applications sold

Between May 1990 and May 1991, more than 4 mil-

copies will be sold during 1992. By spring 1991, more than 1200 Windowsbased applications were shipping.

Building on this achievement and on the success of independent software developers, Microsoft is extending and expanding the Windows environment

so that Windows-based applications can run on a broad range of computing platforms - from low-end batteryoperated portables to high-end RISC workstations and multiprocessor servers. We are expanding Windows to make it fully 32-bit, and are adding additional operating system services.

Microsoft Windows for Pen Computing and Microsoft Windows with Multimedia Extensions will also take advantage of new hardware technologies. DOS applications and thru a technique called demand

add-on to the familiar MS-DOS operating system they have used for years.

This perception took much of the fear out of upgrading to Windows for the end user. But in fact, Windows is not limited by MS-DOS, Windows is a complete operating system that provides extra features on top of MS-DOS and replaces certain MS-DOS features

The advantage of being able to work with MS-DOS is that it preserves the value added by MS-DOS's long life span (in computer years).

Future versions of Windows will continue to be available on MS-DOS.

The Windows architecture

...more than 4

million copies of

Version 3.0 were

sold...

Since the IBM PC was introduced in 1981, personal computers have become much more diverse in capability and in configuration. This diversity will increase in the next few years as personal computers based on RISC processors and multiprocessor systems are introduced. These diverse systems have different operating system needs.

For example, a low-end battery-operated portable requires minimal memory and hard disk footprint to lion copies of Version 3.0 were sold. International Data minimize weight and cost. It also requires power man-Corporation estimates that an additional 7.8 million agement to extend battery life. Some vendors feel that

the diverse range of hardware requires totally different operating systems for personal computers, workstations, servers, and in the future, pen-based systems. Each of their operating systems require unique, incompatible applications.

Today Windows has three modes: Real-mode, Standard-mode and Enhanced-mode. Real-mode provides compatibility with previous versions of Microsoft Windows Standard-mode is optimized for an 80286 made enormous investments in Windows programming processor and provides access to the full 16 MB of memory supported by that chip.

Enhanced-mode takes advantage of the 80386 and 80486 processors by providing support for multiple

ory then is physically present in the machine. All three 16-bit architecture. Code must be divided into segments modes support both DOS and Windows applications. Building upon the success of Microsoft Windows Version 3.0, Microsoft will introduce Version 3.1 in late

Version 3.1 incorporates significant customer feedback; it improves performance, introduces a newly designed file manager, improves network connectivity, and improves system reliability. Version 3.1 will support Windows Standard-mode and Enhanced-mode. Also during 1991, Microsoft will enhance Windows Standard-mode and Enhanced-mode by providing extensions for sound, animation, and CD-ROM access, called Windows with Multimedia. We will also release extensions for clipboard and pen-style computing, called Microsoft Windows for Pen Computing.

Windows NT In 1992, Microsoft will introduce a new product called Windows NT (New Technology). Windows NT in built on a modern, 32-bit, operating system kernel. Windows NT does not require DOS to function. However, it is compatible with the large installed base of DOS and Windows applications.

In addition to compatibility with existing applications, Windows NT includes the features required to and RISC systems. Windows NT and future versions of

meet the needs of the high-end desktop and server marketplace in the 1990s and beyond. To support large server applications, Windows NT provides completely symmetric multiprocessor support. With Windows NT, tasks are symmetrically distributed between processors on a per thread basis.

Windows 32-Bit APIDevelopers and end-users have and Windows applications. Most of these applications have been developed to run on both the 16-bit 80286 processor and the 32-bit 80386 and 80486 systems.

Although highly capable, programs written to the Windows 16-Bit API, which is supported by Windows nificant new functionality to Windows users.

paging, provides applications with access to more mem- 3.0, are constrained by the memory limits inherent in which cannot exceed 64K (65,536 bytes).

This makes programming more difficult. It also imposes a performance penalty on high-performance 80486 and RISC-based systems. The success of Windows Version 3.0, made it clear that an easy migrais tion path from existing 16-bit Windows applications to g 32-bit programming interface was required.

Combined with the TrueType font technology first available with Windows Version 3.1, it is possible in draw truly device- independent graphics that the system can map to the display surface, including the rotation of bitmaps, fonts, and metafiles.

Excellent performance is expected on this platform, 50 The future of Windows

Millions of people are actively using Windows Version 3.0 today. Corporations and independent soful ware vendors are making major commitments for Windows and investments in Windows applications. To protect this investment, Microsoft is evolving Windows into acomplete architecture.

Through separate implementations, Microsoff Windows will run on vastly different types of hardware; from pen-based notepad computers to multiprocessor

Windows Enhanced-mode will support the Windows 32-Bit APIs. Designed to simplify migration of Windows applications from 16-bit to 32-bit, these APIs will also make it easy to develop new 32-bit Windows applications. They contain significant new features which will enable a new generation of powerful Windows

applications.

... future versions of

Windows Enhanced-

mode will support-

the 32-Bit APIs...

In addition, the Windows 32-Bit APIs will be used as the foundation for future versions of Windows under development at Microsoft. Thistechnology, often called Information at Your Fingertips TM, will make it even easier to use personal computers and will provide sig-

Add up to 211K to your IBM compatible with QEMM-386 6.0 software

1991 - Quarterdeck Office Systems, Inc. today announced the industry's most powerful memory management and processor control program, QEMM-386 version 6,0.

The Quarterdeck Expanded Memory Manager-386 (QEMM-386) is an intelligent, high-performance expanded memory manager that allows automatic, or custom userconfigured management of all of a personal computer's memory; conventional, expanded, extended and high memory. Version 6.0 brings additional power and capabilities to QEMM-386's Optimize program - which automatically configures memory and loads and device drivers in high memory; adds responds in a variety of new, more powerful

SANTA MONICA, Calif., August 13, new ROM detection and utilization technology to QEMM-386 - which will deliver many PC users up to 115 kilobytes additional high memory; adds support for the "Suspend-Resume" feature common to many battery-powered laptop PCs; adds support for the Chips & Technologies SCAT Shadow RAM memory; and, gives Windows 3.0 enhanced mode users 8K

24K more memory for DOS. The result is a more powerful, easier to use QEMM-386 that makes available more memory than previously thought possible," said Therese Myers, Quarterdeck's president and CEO. "Version 6.0 senses memory utiterminate and stay resident (TSR) programs lization patterns and requirements and

memory."

Features new to Optimize include:

The ability to process embedded batch files in a user's Autoexec.bat file. Previously, users wanting Optimize to see required to include them directly into tion about Autoexec.bat, This is no longer true. Users who like to keep their batch files small and organized by function will find this feature helpful; "Squeeze," a new capability that can temporarily increase the high RAM region in high memory during a program's load and initialization. This feature is help-ory-allowing users to perform "What-if?"

ful for programs that require more memory analyses with their memory configuration, The maximum memory gain to a power while they are initializing than they do once user could total an additional 211K of high they are resident; Optimize now can automatically exclude portions of high memory accessed by device drivers and TSRs. This avoids conflicts with hardware that previous versions failed to detect; Users can now create "response files" that QEMM-386's and process TSR load statements were LOADHI programs can use to get informawhere and how to load programs high. This feature is valuable for network users who load TSRs from public batch files on the network.

> Optimize now lets users view, browse and play with the list of device drivers and TSRs that the program has relocated to high-mem-

STEALTH TECHNOLOGY

Additional high memory provided by QEMM-386 version 6.0 results from a new feature called Stealth. Quarterdeck's new "Stealth" technology hides a PC's ROM code, and makes its memory addresses mappable as High RAM, which is then usable for other purposes.

Until December 31, 1991, registered QEMM-386 and QEMM 50/60 users may upgrade, from any previous version, for a \$30 fee. OEMM-386 version 6.0 is now available at software stores around the coun-



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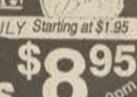
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Hybrid fuel systems, as its

name Implies, is a mixture

of the qualities of both solid

and liquid propellants.

dioxide, and water vapor. Solid fuel exhaust

produces hydrogen chloride, which acidifies

the environment, and aluminum oxide parti-

by Ron Hess Space Technology Writer

unpredictable American space program have recently proven its potential. sent aerospace firms searching for a cheapor, more reliable mode of transporting is a mixture of the qualities of both solid

equipment into space. Many companies are returning to the old, reliable, and predominantly solid-fueled rockets, such as McDonnell Douglas' Delta and General Dynamics' Atlas rockets to lift industrial pay-

loads into space, thus exposing the potential pared to the highly volatile solid fuel stacks. for commercial space programs.

Unfortunately, the reliability of the solid fueled booster is questionable, mainly due to the results from the 1986 Challenger accident. But, it seems that American

Rocket Company (AMROC) has a safer uid propellants; carbon monoxide, carbon solution to solid fueled rockets, a hybridized solid-liquid fuel. This answer has been A recessed economy and an expensive, around since the 1940's, but has only

Hybrid fuel systems, as its name implies,

and liquid propellants. Hybrid fuels are relatively safer than solid fuels, and less expensive than its liquid counter-

Hybrid fuel propellants are nonexplosive, as com-

The result is higher worker and third-party safety, which lowers costs by reducing insurance fees. Hybrid fuels are also less harmful to the environment than solid fuels. Hybrida emit the same by-products as liq-

cles, which do not affect human life, but do compress to form debris in low Earth orbit. In addition, hybrids are not affected by

cracks and faulty O-rings. Once ignited, hybrids only burn where the fuel is oxidized, and may be shut down if necessary. The only significant disadvantage of hybrid rockets is that they do not produce as much thrust as solid rockets.

AMROC supports its choice of hybrid fuels based upon the safety factors and the low launch expenses, which will hopefully make them more competitive in the commercial launch market. American Rocket Company uses a polybutadiene fuel, which can be processed in ordinary industrial mixers without expensive explosion-proof processing equipment and automated facilities.

The cross section of the fuel core is in the below \$2500/lb with improved vehicles. shape of a wagonwheel, with liquid oxygen oxidizer flowing through the ports between the spokes. The polybutadiene fuel is ignited by pyrotechnic charges, and the only combustion occurs where the fuel is vaporized and combines with the oxidizer,

AMROC has produced a polybutadiene fueled launch vehicle, called Aquila, which jected safety and cost efficiency goals, then

is capable of putting 2500 lbs into a polar orbit, and 3400 lbs into a low Earth orbit. The total liftoff mass is about 220,000 lbs. with four boost-

400,000 lbs of thrust.

Projected launch costs are initially expected to be \$3850/lb, but will likely fall is to exploit this potential.

AMROC estimates further cost reductions with the possibility of a rocket launch team requiring only 12 people.

Like the Delta, Atlas, and other low-cost launchers, Aquila is designed to serve a market that has yet to emerge. But if the hybrid system is capable of reaching its pro-

> there may be a new technology based for small launch vehicles.

Unfortunately, the success of hybrid propulsion depends upon funding. whether from the government or poten-

er stages, with the first stage producing tial customers. The American Rocket Company has shown the potential for a safe, clean, affordable new rocket. The next step

Orbiter update...

Atlantis - STS-44/DoD - VAB

Work in progress:

Shuttle Interface Test to verify critical connections between the vehicle elements and the launch platform.

Discovery - STS-42/IML - OPF Bay 3

Work in progress:

- Preparations to remove the shuttle main engines.
- Re-installation of the reinforced carbon carbon T-seals and panels on the leading edges of both wings.
- Open the payload bay doors.
- Functional test of the radiators.
- Thermal protection system operations.
- Leak and functional tests of the main propulsion system.
- Testing of the communications system.

Endeavour - STS-49/INTELSAT Reb. - OPF Bay 1 Work in progress:

- Leak and functional tests of the auxiliary power units.
- Preparations to install the power reactant storage and distribution system tank set No. 3.
- Rigging of the left external tank door. - Checks of the main propulsion system.
- Inspections of the main propulsion system pneumatic system. - Installing strain gauges on the wings.

STS-42 Solid Rocket Boosters-VAB High Bay 1 Work in progress:

Stacking of the right forward center segment Transfer of the right forward segment to the VAB

Space Technology Writer Arianespace has scheduled the launch of their 47th Ariane mission for Tuesday, October 29, 1991. This mission will carry the INTELSAT VI F1 telecommunication satellite into a geostationary transfer orbit over the Atlantic Ocean.

by Greg Rezendes

The Ariane mission will be launched from Ariane launch complex ar 2 (ELA 2), in Kourou, French Guiana. The time of launch will be between 6:07 p.m. and 6:41 p.m., or between 8:26 p.m. and 8:59 p.m. EDT.

This mission will use the three stage Ariane 44L lifting vehicle with its four solid strap on boosters. This will be the eighth ducing and launching operational lifters. launch of the most powerful versions of the Ariane 4 family. It will lift the 4260 kg

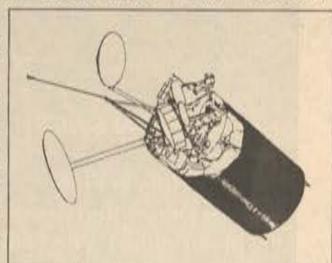
The INTELSAT VI FI built by Hughes Aircraft Company for Intelsat will provide international communications from its position over the Atlantic.

Arianespace to launch INTELSAT satellite next week

The International Telecommunications Satellite Organization (INTELSAT) is the non-profit cooperative of 121 countries that owns and operates the global communications satellite system used by countries around the world for international communications and by almost 40 countries for domestic communications.

Arianespace is a private corporation created by the European Space Agency (ESA) in January 1980. They are entrusted in pro-

After this launch, Arianespace has 32 more satellites which will be launched for satellite into position for its five motor an estimated \$2.4 billion. Of these, the stages to achieve its proper position over the United States has only three to be launched.



Communicating...

Unfortunately, the success

of hybrid propulsion depends

upon funding, whether from

the government or potential

customers.

This graphic depicts what the telecommunications satellite will look like in space.

Fiery object most likely a Soviet rocket, scientists say

the attention of many Oregonians object most likely was the spent Thursday night most likely was a rocket body. It was on a trajectory spent Soviet rocket body re-entering Earth's atmosphere.

Dick Pugh, a meteor expert and high school science teacher, said the object flew west from central Oregon and probably disappeared

over the Pacific Ocean.

PORTLAND, Ore. (AP) - Experts spokesman for the U.S. Space said. "One person reported that the ficient size to shake the ground that say a fiery space object that caught. Command, said Friday that the inside of their car just lit up." through northwest Canada, Washington, Oregon and California, but apparently made an abrupt righthand turn as it slammed into the atmosphere over Oregon, he said.

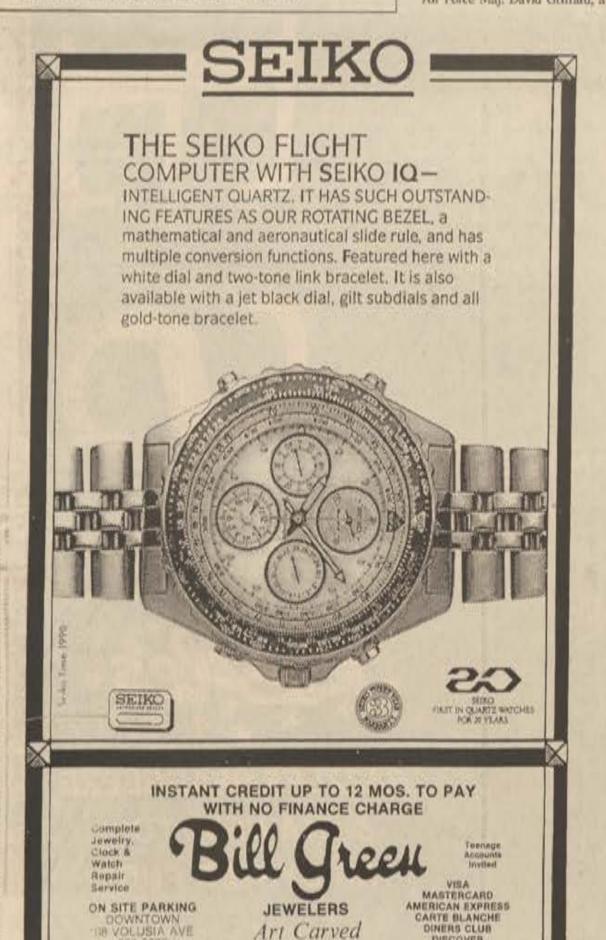
"It was bright or brighter than a full moon - in some cases it just lit

Some observers in the Portland area associated the display with a minor earthquake that occurred 12 minutes later.

"My phone at home went crazy last night," said Bruce Spainhower, director of the Kendall Planetarium Air Force Maj. David Griffard, a things up like broad daylight," Pugh and Industry, "Any meteorite of suf-

way would not have been seen by just a few people. It would have lit up the entire sky and made a tremendous hole in the ground."

Man-made debris ranging from large rocket boosters to small satellite parts re-enters Earth's atmosphere almost every day, Griffard said. He said the space command at the Oregon Museum of Science tracks 6,900 pieces of orbiting



DIAMOND CENTER

DISCOVER



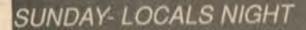


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C-172	\$55.00	\$49.50
WARRIOR	\$55.00	\$49.50
ARCHER	\$63.00	\$56.70
ARROW	\$70.00	\$63.00
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TWIN COMANCHE	\$110.00	\$100.00
ATC-610	\$16.00	N/A
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Drinks 8 To 11
WEDNESDAY- LOCALS NIGHT EVERYONE GETS IN FREE
1/2 Price Drinks And Beers All Night
Female Best Body Contest - \$100 Cash Prize
Sponsored By East Coast Gym
THURSDAY- 1/2 PRICE DRINKS AND BEERS 8 TO 10

\$100 Wet T Shirt Contest

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Brothers of the Wind

by John E. Luke Clubs Writer

Brothers of the Wind (BOW) held their annual cookout at the Embry-Riddle barbecue pit on Friday. BOW is a club with an interest in advancing the role of minorities in the aviation industry. The president is Eboni Wimbush, Vice-Presidents are Tony Velasquez and Michael Portelli, Tresurer is George Bowles, and Secretary is Carlos Salzer.

BOW held its annual picnic to help bring the club together and encourage potential members to join. At the picnic, hamburgers, hot-

dogs, soda, chips and potato salad were available. Members were very satisfied. The pumpin' sound system was also invoking hip-hop dance moves by several of the members.

BOW has several committees within the club to serve the needs of the membership. BOW may be the club for you, find out more about it by attending a meeting!

BOW meets on Thursdays at 1:30 p.m. in room E-611. At the next meeting, President Sliwa will be the guest speaker. Members are preparing special questions to ask Sliwa specifically about minority issues.

Army R.O.T.C.

by Erin Slaney R.O.T.C Writer

Army R.O.T.C. has a busy schedule this month! Along with the many educational labs, including First Aid, Individual Tactical Training (ITT), and Drill and Ceremony, Eagle Battalion has scheduled a field training exercise for the MS III class to be held at Camp Blanding on the weekend of the 19th. This exercise will involve platoon tactics, qualifying on the M-16 rifle and an opportunity for the MS III class to experience leadership in a field environment with ed in M building.

cadets from other universities.

Also, the following weekend of the 26th, the MS I and MS II classes will participate in an exercise to be held on campus. This training will include land navigation, ITT and water safety.

Exercises like this provide excellent training for basic skills, enhance class bonding and offer early opportunities to lead fellow cadets.

Army R.O.T.C. involves more than classes. If you have any questions concerning the program, please stop by Eagle Battalion locat-

Rugby Club

by David Hannigan Club Mobile Home Driver

Due to a brain fart, last week's article was not submitted on time. But here it is one week late with so much to say. West Palm Beach started dropping like flies after the first game two weeks ago. The old men could not take the constant pounding thrown at them by the Nuts. Returning grunt Chuck May combined with the unstoppable Pager to give the 'Nuts a 10-8 victory. Subs were brought in on both sides as eyeballs burst open and collarbones cracked. The Motleys also showed great pride and determination as they stomped on West Palm in the second game. The game-win-

Stand. High scorers of that game were Jack Shield, Pete Padilla and a player that wishes to remain anonymous. Pete liked Tampa so much, he decided to stay with the fat chick for the whole weekend. Seeing as how Pete didn't have the money for the bus, Chuck "Grey Hound" Hitchow did the disgusting thing and returned toTampa to give him a ride home. Watch for Pete to be sucking up to Chuck in the next few weeks. Gabe had his kick blocked in an attempt, but walked away unscathed. By the time this is out, the 'Nuts will have already traveled to the State Championships and hopefully brought back a prize. But come on out and see us stomp on Gator guts as we play the University of Florida ning try was scored by McFadden as on the 26th at Jackie Robinson. he continues to show his stuff. On to Well, sorry to give such as "quickbigger and better things. Last week- ie," but it is time for my afternoon end the road trip to Tampa was a nap. As you move on to the comics great success. Although the team section, I leave you with this lost the game, the 'Nuts scored left thought: BE KIND TO ANIMALS, and right at the Yucatan Liquor KISS A RUGBY PLAYER.

SCAT

by Americo G Matera SCAT Secretary

The answer to last week's question is: The TPE-331 is a fixed turbine and the PT-6 is a free turbine. The TPE-331 must be started at low blade so that the load on the surrer to submit a question see me at the is reduced. The trip to Orlando is

still on for this Friday. Consult the bulletin board for details. The question for this week is: A feel truck is servicing a Cessna 172. How should the aircraft be grounded and from which points? Question submitted by Gene Zastera. If you would like meetings.

Rotoaract

by Dan Karger Club President

A new club is forming at ERAU. Rotaract is the college division of Rotary International. This club has strong ties to the businesspeople of the community. Seeking to unite the strengths of the established business community and the college community, this club hopes to provide ERAU service and community ser-

This international club gives the ERAU student a means to develop his or her business skills and make contacts through activities and fundraising events with business people and aviation industry personnel.

ERAU our Homecoming/Rotaract Fly-in project, Start making contacts now! For more information, contact Dan at 788-4366 or Box 5681.

Currently, the club is looking for

some ambitious individuals to work

Alpha Eta Rho

by Matt Hopkins AHP Historian

Greetings to all brothers and pledges of AHP. I'm sure you are all having a productive week. The temperature has finally started to cool down a bit which definitely makes life more enjoyable. At least I think

The Football team's loss last week was quite a downer, but everyone played extremely well. We will get back on track I'm sure. Maybe if Scott utilizes his solo flex and transforms himself into a lean, mean, fighting machine, he can be our secret weapon. I think that's a fabu-

The pledges are doing well as can be expected at this point. They historian signing off.

deserve a special thanks for volunteering for White Face Day last week. It was a great pleasure to see them band together for a very important cause. Their car wash this past weekend was also a success. Keep up the good work guys. They only get better with time.

I'd like to extend a late congratulations to Alumni brother Scott Roper who recently landed a job with Delta Air Lines. It is good to see a positive sign for the future of ERAU students. We haven't been seeing to many wonderful future outlooks recently. Hopefully, this all will change. All we can do is to continue to strive for excellence and be confident that it will pay off. Until later my friends, this is your happy

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.

Lambda Chi Alpha

by Nick Colella and Marc Fisher CLub Writers

Hey! The weekly countdown is six weeks left until exams. Yummie. This week is Greek Week and we're sure that Lambda Chi is kicking some butt. Be sure to come out and participate and cheer for us in the events. Last week was substance awareness week and we would like to thank Brain Farrel, Howdy and everyone else who took part in White Face Day.

Mini-conclave is November 1-3, so get ready for an all expense paid trip to the great outdoors. No showers! Expect to have some good food, mosquitos, and a lot of learning about Lambda Chi.

For the sports scene: Yes! The football team took its first victory of the season. Bill "The Howitzer" Moore threw for a total of 623 yards with 8 TD's and no INT's. Robbie "Rhino" Wetzig and Steve "Jump'in Jack Flash" Jehle combined their weights for a total of 139 lbs. to totally shut down the offense of the opposing team. Soccer is improving with each game under the close Top Gun. scrutiny of Coach "Dreamy Boy"

Designated drivers for the week of Oct. 21-28: Rui "White Face" Pereira. Mark Intramural...NOT" Hogan, Steve "The Mooch" Goddard, Barry "The Torch" Hill and Jeff "Weedwacker"

Mark "Tippy the Turtle" Raffa's Safety quote of the week: "Don't ruin scissors with your hands."

The top ten reasons why people didn't show up to Street Clean up.

10. Mark R. - Strange velcro accident (Information Classified).

9. Mark H. - Writing his acceptance speech for "Athlete of the Month.

8. Eric Q .- Free food wasn't

7. Brent and Dan - needed another reason to show up at exec. 6. Murf - was out practicing with

5. Shane - too busy trying to be Drewny."

4. Vinny - too busy styling his

3. Keith Z. - too cool to pick up garbage.

2. Eric S. - flight instructing at And the #1 reason why people

didn't show up to Street Clean Up.

Management Club

Vice-President, Management Club

The Management Club's last meeting featured Gerald Oppliger, President of the Lockheed Space Operations Corporation (LSOC), as guest speaker. Oppliger was informative about LSOC's role in the larger Lockheed Corporation and gave good advice on how to succeed in management. He also invited the club to tour the operation's facilities in Titusville next spring.

The next meeting will be on Wednesday, 23 October, in E-613 starting at 6:30 p.m. This is the last meeting to turn in semester dues (\$10). It will be a brief meeting to go over next month's schedule of tours and speakers and discuss fundraisers. After the business portion of the meeting is through, a video will be shown. Committees

will also meet at that time,

On Friday, 25 October, the Management Club will tour Simcom, a simulator company in Orlando. We will be leaving Riddle at 1:00 p,m and will spend approximately two hours on the tour. More details about the tour will be discussed at tonight's meeting.

A big thank-you goes to everyone on the Industrial Files committee who helped send out letters to about 30 companies requesting annual reports, newsletters, brochures, etc. We should start receiving the material next week, and the files will be open by the end of October (just in time to be used for all of those reports due in mid-Novembert). For more information about the Industrial Files, contact Kim Heidt at tonight's meeting or through the Management Club box in Student Activities.

Soaring Club

Jason Tobin Club Correspondent

The Embry-Riddle Daytona Beach campus now has an officially recognized Soaring Club! The Student Government Association (SGA) sanctioned the re-birth of the previous "Glider Club" at its weekly meeting on Tuesday, October 8,

The initiative to re-launch the Club began during Summer Term"A," 1991, when Aaron Williams (CS) and Drew Pearce (ACM) discussed John Rollins to serve as Faculty Advisor, Posters, an article in the Avion, and surveys circulated throughout various classes during the summer semesters generated a positive response for reactivating the Club.

The first objective in the plan to re-organize the Club was to assess the local availability of an airfield, tow planes, tow plane pilots, sailplanes and certified flight instructors. The Club was fortunate to discover not one, but two soaring operators in Volusia County located within a 30-minute drive from campus! Members were in the cockpits of Schweitzer 2-33s or n Blanik L-13 taking introductory flights within 24-hours after the first Club meeting on August 29, 1991!

The Club, which is for Embry-Riddle students, faculty, staff and their families, is already involved in many diverse, but related, activities. The Club has held 3 meetings, created a computer database for a roster of over 200 members, is evaluating the responses of its membership to a recently mailed 30-item questionnaire, revised its organizational By-Laws, and participated in the Fall Semester Activities Day.

Williams, President; Andrew Meyers, Vice President; Jason Tobin, Secretary; and Pete Zacagnino, Treasurer. Committees for Programs, Communications and Publicity, Training and Education, and Special Projects have been created for members to join and contribute to the Club's agenda of activities. An Advisory Committee of faculty and staff interested in thelong-range planning and success of the Club has also been established. The current members include Dr. Ken Fleming (ABA), Dr. Paul Braim (HU/SS), Dr. "Skip" Smith (AE), Dr. David Kim (AE), Mr. Phil

Reeves (AMT), Mr. Fred Mirgle

(AMT) and Dr. Terry McGrath

The Club elected the following

officers for the Fall Semester: Aaron

Programs and activities planned for the future include joining the Collegiate Soaring Association for soaring meets/competitions with other colleges and universities, featured speakers known for their involvement and accomplishments in soaring, field trips to regional soaring sites, attendance at the Annual Soaring Convention in Charlotte, North Carolina, restoration of a Phoebus C sailplane for the Club's use as a static display and non-flying trainer, social gatherings and the design of a Club logo.

The Club's members continue to fly every weekend, and to enjoy a cost discount, with Precision Soaring at Edgewater's Massey Ranch Airpark and with Citrus Soaring at Deland's Bob Lee Airport. Additional information and details about the Embry-Riddle Soaring Club are available by contacting the club's Faculty Advisor, John Rollins, in A-202, or by calling

by John Luke Club Writer

Steve Graff, president of the WERU Radio Station Broadcast Club, was the first to attempt "beat mixing," Before your imagination runs wild, let us tell you that "beat mixing" is the technique of mixing songs of similar beat speeds so that there is no apparent interruption in the playing of music. This is a part of the training activities to prepare WERU to go on the air, soon; hope-

Steve Weinreich from Total Entertainment told club members meets bimonthly, Wednesdays at about equipment set up and various other aspects of being a disc jockey. Wednesday, October 30, Come out He brought club music which was and learn more about Riddle Radio! used to allow members to learn beat. Anyone with any questions or ideas mixing. After Graff tried, many for the WERU Broadcast Club other club members volunteered to should contact Steve Graff at 760try to mix.

The WERU disc jockey service to participate!

will be performing at several parties in the upcoming month; Sigma Chi, AFROTC and Lambda Chi Alpha, to state a few.

WERU Riddle Radio T-Shirts are now on sale. The club's T-Shirt has a hip-hop cool design of an antenna and was designed by Steve Graff and Todd Gumbrecht last Fall. The shirts can be purchased from Logan Chalfant at room 257 of Dorm 1 for \$8.00 (\$6.25 for club members who pay does). The shirts will also be on sale at club meetings.

The WERU Broadcast Club 8:00 p.m. The next meeting is 7487 or box 6562. All are welcome

Rowing Club

by Ed Kohinke Club Writer

The ERAU Rowing Eagles have gotten things off to a good start, with organized training sessions already happening and three boats ordered from the factory. Turnout has been good for the start-up practices, which are proceeding at an easy pace so that all who are interested in the club can keep up and improve through the season. Meeting at the tennis courts Monday through Thursday from 18,30 to 20.00 and from 06.30 to 08.00. Tuesdays and Thursdays rowers have done stretching, calisthenics, running and just a sample of ergometer work. This, with some tices will consist of until the boats costs of the rowing equipment.

are delivered late this semester. In addition, arrangements are being made with other Florida schools to use their equipment on some week-

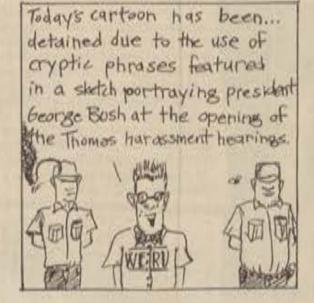
Administratively, the club has become a guest member of FIRA, the Florida Intracollegiate Rowing Association, with club president Louis Cinquanto attending the meetings as our representative. Permanent membership happens when a team gets voted in due to racing successes or to proven club stability over a two year period.

A trip to the Freshman Novice Regatta is planned for November 16, in which ERAU will be observing. Also upcoming will be a T-shirt sale and several other fund raisers weight training, is what most prac- aimed at chipping away at the large

Safe Environment

by the Committee to elect Reagan for-Even









Top 10 reasons to eat at Morrison's

10. The cheerleaders eat there.

- You are still trying to build a place setting for eight.
- 8. Housing has confiscated your microwave.
- 7. The "right turn only" makes the walk to McDonald's just too long.
- 6. They don't make the doughnuts.
- 5. Domino's wants a tip.
- 4. The imaginative ways they "rework" food.
- The management is always courteous and apologetic.
- 2. The mailroom lost your "care package."
- 1. Green peppers, green peppers, green peppers.

TOON INTO HOMECOMING

1991 Homecoming Art Contest

Photography

Art

Cartoons

Misc

Deadline Thursday Oct. 31 See Student Activities

IT'S TIME TO BE CREATIVE

American Red Cross Give Blood

Beach Clean Up

The Alpha Psi pledge class to Sigma Chi will be holding a beach cleanup. Anyone who is interested contact Zach Bowers at box 7666.

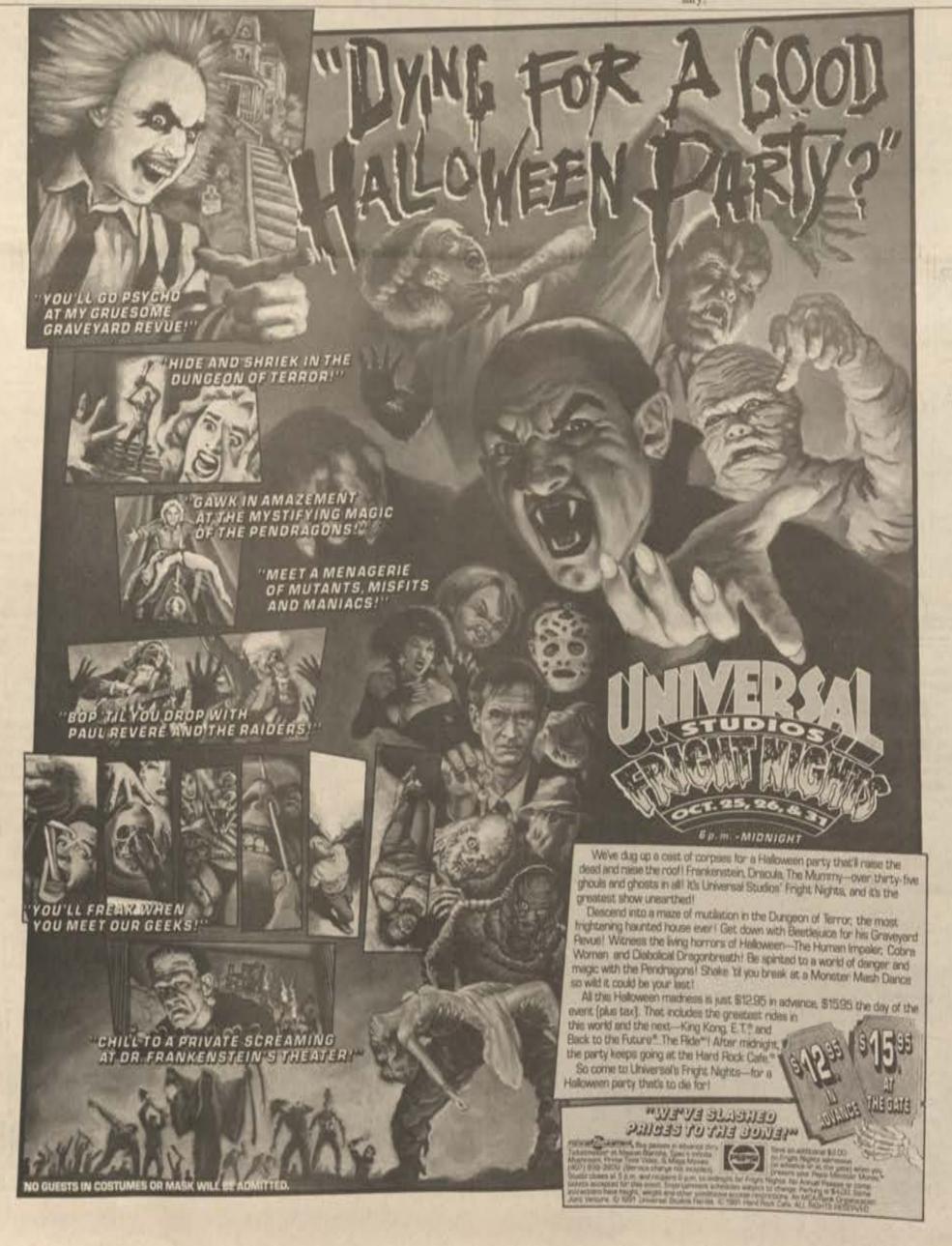
Influenza Shots

On Wednesday Oct. 23 - 24
Health Services and the Human
Resources Department will sponsor
a reduced fee, on-campus clinic for
students, staff, and faculty who
wish to have this year's flu vaccination. Nursing staff from the Walk—
In Medical Treatment Center will
be at HealthServices in the Student
Center from 2:00 to 4:00 p. m. to
administer flu shots for a fee of
\$15.00. No appointment is neces-

Become an Air Traffic Controller. Embry-Riddle is sponsoring an FAA Air Traffic Controller Specialist Exam on Saturday, November 16 in room W-306 at 8:30a.m. Take the ATC Exam For more information

please contact Marvin

Smith at 226-6448.



by Gary Larson

Calvin and Hobbes

RIGHT

ADD TWO EGGS

DAD I WANT

Y BEDLIME

by Bill Waterson









NAH, THAT'S TOO MUCH TROUBLE



WE'LL JUST MAKE ONE BIG PANCAGE AND OUT IT IN

HALF







'Wait a minute, Vince! Last summer - remember? Some little kid caught you, handled you, and tossed you back in the swamp.... That's where you got 'em.'



Professor Glickman, the lab practical joker, deftly places a single drop of hydrochloric acid on the back of Professor Bingham's neck.



SAW A TURTLE DOWN BY THE CREEK



BIG DEAL! WHO CARES! I'VE SEEN HUNDREDS OF

TURTLES! PROBABLY MILLIONE! WHO WANTS TO SET ANKAGE P











"OK, crybaby! You want the last soda? Well, let me GET IT READY FOR YOU!"



"Volla! . . . Your new dream home! If you like it, I can get a crew mixing wood fibers and saliva as early as tomorrow.



AAWWEEEAVVWEEAAW!











You gotta help me, Mom. ... This assignment is due tomorrow, and Gramps doesn't understand the new tricks."



Mister Boffo

William Charleto

by Joe Martin

Mother Goose and Grim

by Mike Peters

HAS THE SURGEON GENERAL

ABOUT THIS?

OF LIKE A MINIMUM

DAILY RE

FOR POSS





















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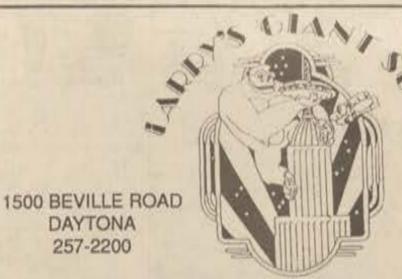
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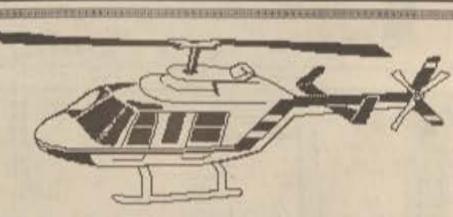
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wast to get together sometime.

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THE DUCK SLINGER

The Fin camels miss youl!

"GREEN EYES"

HMFIC

I heard you don't remember meeting me. I

walked right by you the other day, and we

free your mind. Your a_ will follow!

I am eggman, I am the walrus, I am DUCK

SLINGER and I like dead ducks - well, they

have to be alive so I can arrangle them ...

ASSIFIEDS

+Autos for sale

1981 Toyota liftback, reliable car for a student, runs good, 4 new tires, good stereo and AC, Call 238-7872 after 9:00 p.m.

Classic British sportscar, 1972 Triumph spitfire, new top, rebuilt transmission, new piston and rings, head job, all work less than year old. Totaled \$1400 in receipts. 52,200 firm. Call Bret 756-7932 or box 8159.

1985 Ford Escort L, dark blue, cold AC, great gas mileage, excellent condition. \$2000, Call 255-8430 after 6 p.m. or box 4035.

1984 Nissan Maxima, very clean, must say, \$3500. Call after 5 p.m. 253-7734.

1979 Monte Carlo, good overall shape, PA tag, \$200 firm, must sell. Call Ken 258-0688 or box 6404.

1969 Mustang, 302 vi, Holley 650 D.P., \$150 Comet box 8405. Ediebrock Performer intake, new radiator, asking \$700. Call 258-1538.

Honda Magna 1986, 700 cc, black, 13,000 miles, great condition, \$2500 OBO. Call Ken 322-0919.

1981 Kawasaki 550 LTD, new rear tire, reliable transponation, good condition, \$900 OBO. Call 761-1045 ask for Chris.

1984 750 Interceptor Honda, red, white and blue, new rear tire and battery, \$950 OBO. Call Troy 252-1346, come and take a look.

BMW 320 I, white, 1981, mint condition, one owner, dealer maintained, air, AM/FM carsette radio, tel, equipped, must be seen, \$4000. Call 788-4241.

> Roomates & Rental

\$10,000 down, why rent when you can buy and build equity? I have several condox and homes that can be purchased easily with owner financing or non-qualitting assumable 788-8250.

2 rooms for rent, both mome furnished and house remodeled in 1991, 1/2 mile from ERAU, \$250 mo. plus 1/4 milities, Call Paul 255-9574.

Roommate needed for Sprace Creek Ply-in. Large room, prvt. bath, garage, pool, munis golf, washer, dryer, cable. \$325 mo plus 1/2 utilities. Box 5510 or 760-4348.

ceiling fans, washinfdryer hookup, Call 767-0351. community pool, 5650 mo plus 5650 sneurity Family or responsible adults only. Close to ERAU, in Porest Lake. (904):761-4001 or Roland June 106, full size programmable (407)-366-9762.

Stop paying rent, Beautiful 2 bedroom, 2 bath townhouse with garage. Less than 2 miles from ERAU, Call 274-1146.

+ Misc. for sale

For sales celling fan \$10. Iron with straming capability, \$5. Mr. Coffee coffee maker with automatic timer, \$10. Call 756-8470 leave

Paula Abdul concen tickets for the Orlando Arena, Nov. 4. Good seats. Call 756-8470 and leave rossage.

IBM PC, 2 5.25° disk drives, CGA Graphics and color monitor, with dot matrix printer and software. 5300, call 255-1995.

Color TV, 25° Missubishi color console with remote, on screen display, excellent condition, \$175, 322-0633 and leave message.

Dryer, Speed Queen, works great, 575, 322-0633 leave message.

Clifford Auto Alarm complete with remois, \$150 OBO, 322-0633 leave message.

Rear window louvers for 79-85 RX-7 535 OBO, Cannon AE-1 program, works good, needs to be cleaned, \$40 OBO, Call 760-4348 Or box 5510.

Coors light bar light, great for your bar, \$50. OBO. Call Marc at 238-1417 evenings.

Casio FX 7000G graphics calculator \$45. Ladies Black Hills 10kt gold, size 7 ruse design 550. Soundesign alarm clock radio, brand new \$8, C3 235 assembly language programming text book w/disk, \$30. Call Jaron 252-9152 or box 0636.

King size waterbed for sale, \$175. Call Somey at 238-7804.

Round wood table and 4 chairs \$70. Great for student apartment. Call Cheryl at 761-6720.

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TURBOLOVER Come and get me. TURBOBLONDE

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CNH PHILOSOPHY #2 We are in a civilization where "everybody must get civilized?" Ducks are not in the least hit civilized. Down with bucks!! (Oh - I haven't seen mohawk around lately. Where siz it go?)

You sold one of my friends to give ma a kiss goodbys. Can't you speak for yourself? (Actions speak loader than words,)

ICX-BUBBLE The heart always knows the truth. We will niways stand by you. THURRIGULATORS

The "A" team blows churded Riddle needs a new roccer coach. Play the "B" mam and make playetts. BUNNY BUNNY Happy anniversary! Love you and look

forward to tonight! HONEY BUNNY

GREEEN HYES Stop by for a drick sometime. (Yes, it's next sourcebooks for reasonable price. Call Brian to Brad's)

Thanksgiving? Td like a ridal Will pay gas I guess I'm getting tired of being the

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Need a rids. Anyone going to the Philadelphia area during Thanksgiving? Will share half the cost. Contact Greg at 238-1292

+ Personals

Need help in algebra or a good old-fashiound backtish? If interexted, contact the chunky lady in sizalth headquarters. (services rendered every six days. Payment not necessary, but a blender may be involved!)

Somebody finally wrote you a personal.

Let's rearrange furnitural Did you find your emiti-talented man? Hope so. Good book, pull Fn A, Manl (Nm) My mother rule. Oh! Her what you said, it was a lie, be, tiel Fa II, man! Ah'm In looove, y'all! Do you feel real? That is all I'd like to know. One eyed Willist Watch out for the . wall. Lucky it warn't a telephone pole, Dudel Love ya, Mudi

What would you think if I sang out of isme?

Do you need someone who will take care of your every desire? Do you like long walks on the beach and romantic dinners by the fireplace? If so, you need me, babe. This should be circled in lipstick. I love your flaorescent lightbulls. Can you stand the rain? Your forever love, NOT FROM MIL BUT FROM ME

How about another waterfight? AN EXTROVERT

STARFLEET Ever wonder what a 30mm cannon will do to COPPERTONE a Chevy van at close range? I'll tell you, TOTAL DISINTHORATION.

PUNISHER

CRYSTAL Laurouse practice? Not if it's raining! We B.D. really should change the case! Looking forward to away games... Let's go tanning! On ... you are tan. Sorry! Love ya lota! FROM, THE SLIGHTLY DERANGED

Who do you like now? Just want to dance! Labs are great. Moon bathing tonight? NAH. Let's go stamping. You're a weird kid, but I HIR love yat LOVE, YOUR NEIGHBOR

made eye contact, but you didn't seem to This campus does need a radio station. recognize me. Write back, let me know if you There once was four sisters from Thesa Phi, who talked about taking out the Lambda

Stir fry and Michelob Dry. I had a great time.

You guys are the bastest buddles I've got!

Chi's. You won the first, then we evened the score, and now your just afraid to play

THE FANTASTIC FOUR

Where is my 510, cheap-o. JACK

STEVE AND GUMBI

TO THE BIG DOG You'd leave in a New York minute to go bark up an Ohio tree - so don't try to tell me different!! Solution... take me with you on vacation and lat's go (you big dunmy!) I love P. T. BRAR

We don't want your blood oil. SAM AND THE ILLUMINATED SEERS

Whadaya think about our "secret handshake71" li's so seemt you didn't even know about it!! Thanks for being you, you not sexy babe, my lamb-chop, I love ya (bone-beadt) FROM MR (AGAIN)

"DUCKS HAVE FLITASI" Disgusting ... "Quack!" "Shoot!!" "Dam, I missed..." "Better luck next time..." Coming soon: Mohawk's revenue THE DUCK SLINGER

BROOSCH You are precious!

You are one NOSEY guy, amn't you? HA-HA love yal "CHUCK II"

STARFLEET SUCKSI Q IS A SNOBI

To one particular "skinny guy with an attitude" (moo-moo truck) I'm finished with the "Cs". I have got to move on. Which letter will be next? We'll soon see.

I'll get you back!!! TWEETY

Your the best twin brother apparated at birth I could ever ask forl! LOVE D.L.

ANDRUIA So when does mudwrentling start??

Drink for beating one at tenms! "PRESIDENT" P.S. When's the Torn Collins show down?

TO PERHLIPPS Now! Now! Now! Onys thorn strip joints are diagosting! THE GUYS

Can we burnyw the yacuum this weekend? THE BOYEE'S

THETA PHI ALPHA Sorry about messing up this week. I'll try to do better and work harder. Thanks for helping me and I love you all!

Thanks for being my big six and a really good friend. I look forward to our next gab session and parties at Delta Chi. LIL SIS

I really appreciate what you did for me last Monday (taking care of the candy business.) I own you one - (anytime!) Whenever you want to buy a kirs, let me know! Buy one - get one

hundred free! We do have something in

QUICKCLAW This is the U. S. S. Sacket. Our long range scanners indicate a ship in the neutral zone.

Please identify yourself.

DEC 13

I cared for you, but you threw it away, I came back again, but you didn't want me to stay. I just wanted to be friends, and wish you well. But you couldn't even take that so, you can just go to h_ll! THE RAINTOWN BOY

ATTENTION: FOUR LAMBDA CHI'S There is no need to cry, although you lost to Theta Phi. It doesn't mean you can't try, once again we will play. Just think, your gonna lose in a big way. Which will probably roin your day. So when will you get up enough nerve, let us know so we can throw you a purve!

What's his name? DOOFUS? How could you fall in love with a doofus? Fn A. Let's be civilized. Mushroom and swiss the

weekend!!! HAMMER ALICE What happened? I'm interested.

Don't ya know ya got sh_1 on your nose? BLONDIE

Don't make me get up! BLONDIE THE REGULATORS

T-5651

That's why we wear keviar vests. FENCERS

PENCIDAS There's no defense technique in fencing that can stop a bullet. THE REGULATORS

No place is safe! TERMINATOR

WATERFIGHTERS

TURBOLOVIIR Bener run for covert TURBOBLONDE

TO SNAGGLEFISHTAILI, RIKER, PICARD AND THE OTHER STAR TREK WANNABRES Do averyone a favor and go play spacemen in another university's newspaper.

CRAP (COMMITTER TO RID ASININE PERSONALS)

BRY BUCKY See any space ships lately? GOON AND PIGPEN

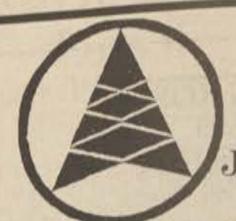
SHILL

I had a "most enjoyable" time during your vixit. Thanks for the frequent visits to riclub, our membership is in good attending. Let's not wait too long to get together again. Ms encantal

if our with your friends tonight, I'm going to Ryan's and you can bet I'm not leaving them alone. Oh, where the h_ll is my new car and full length mink cost, you chespekste. LOVE CARI

STARFLEET You really enjoy playing with your imaginary phasers. We have real gons MADD MAXX AND THE PUNISHER

CRAP This is getting a little out of hand, isn't it? I think someone must dis. OVERLORD



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Other People's Money

is not worth one dime

Griffith is "Grande" on CD

Rush should have slowed

to Roll the Bones.

Special to the Avion

Nanci Griffith's newest release, Late Night Grande Hotel, is an excellent combination of keyboard, string and vibrant emotional vocals, Miss Oriffith has a style and accent that this reviewer finds refreshing. It is becoming rare for an artist not to be compared to another and I can make no such comparison.

Phil Everly, one of the many musical guests, takes part in a dueling vocal for the first cut, "It's Just Another Morning Here." The vocal sounds like the old style country twang, but it is not hick

Through the complex lyrics of these songs, Nanci Griffith tells stories of love, sorrow and hard times. There is a little bit of comic relief too, One particular cut, "One Blade Shy of a Sharp Edge," is amusing. It includes the title line as well as "and you think that true love is around the bend; you've been around the bend since age 10." squeeze,

"The Power Lines" has especially complex lyrics with a powerful, deep message. I think she is talking about a lost love who finds himself on the road with nowhere to go; however, I wonder whether or not I truly and thoroughly understand the entire meaning. "Hometown Streets" tells the story of leaving home and friends to achieve goals only to find out that what is needed to accomplish these goals are the friends that were left behind. "Down'n'outer" is about someone who is broke and is trying to get a job but will not be granted an interview because of lack of dress clothes. "San Diego Screnade" tells us that we never really appreciate what we have until it's

Overall Nanci Griffith proves to be a competent music writer and performer, While none of these tracks are destined to be chart toppers, they are good to listen to when you are with your main



That country twang... Nanci Griffith does her best on Late Night Grande Hotel.

no profound meaning.

"You Bet Your Life."

the song come alive with emotion.

average Rush. They include songs

with either disinterested singing or

them is the title track, Roll the

Bones, while all of the others will

fall short of reaching any charts,

These include "Bravado," "Face

Up," "The Big Wheel," "Ghost of a

Chance," "Neurotica," and finally

Only avid Rush fans should pur-

The rest of the songs are just

The hottest prospect of all of

on their new album

by George Clarke Diversions Writer

I just had to see Other People's Money. It was highly touted in newspaper ads, and the amount of air time its commercial advertisements received rivaled the length of the Thomas confirmation hearings. Well, I finally saw it last Friday night. Was it as good as everyone says? More on that later,

Danny Devito plays Lawrence Garfield, a mean and ruthless corporate takeover guy. (At least he is supposed to be mean and ruthless -Devito never really projects himself Devito is okay as a cutsie bad guy,

amoral). Other People's Money Garfield gobbles up companies for is billed as a comedy. breakfast each This isn't quite true. morning, along I laughed maybe with several once - at a very boxes of Dunkin' sexist joke. Donuts, which are his fetish.

chew when he tries to go after a small-town wire manufacturing company, headed by the stout and highly ethical Jorgy (Gregory Peck). The ensuing legal battle is a headto-head fight between the opposing philosophies of each man; Jorgy's battle being fought by proxy - his daughter, Kate, serving as his

Other People's Money is billed as a comedy. This is not quite true, I laughed maybe once - at a very sexist joke. (Most of the film's jokes are sexist - don't worry, I felt guilty later). There are light moments in every movie, and this one had no more than the average.

romance, either. The two main char- of mine.

acters sit around and flirt the whole time. The most romantic part of the film is a scene in which Kate orders Garfield to grasp his own genitals and speak to them. The two kiss once. It isn't a big one, either. Not

even any tongue. Throughout the film there is a strong social comment against Japanese big-business. The social comment is relevant; the placement

of it in this forum may not be, On the plus side, the acting is good. Penelope Ann Miller, as beautiful as she is, plays a lawyer nicely.

> although he must love cutsic bad guy parts, since they are all he over plays. And hats off to Gregory Peck. He is getting up there. in years, but he is

But he bites off more than he can still one of America's best actors. He plays the part of a proud plant manager as if he was a proud plant manager all his life.

But the film just doesn't work, It is neither funny nor romantic nor philosophical. About all I got from the movie is the realization that Danny Devito, when fully erect, stands less than four feet tall. It would have been nice if maybe Kate and Garfield shared a romantic interlude together; perhaps she could have held him in her hands and whispered sweet nothings to him, as I often do with Yoda action figures. Yes, I wanted to sigh more. I wanted to laugh more. I wanted a lot more than I got. Other People's Other People's Money is not a Money probably won't get any more

chase this album, which before too pay?" The beat is that of marching The lead vocalist, Geddy Lee, Sports Editor long will be on the discount rack at With the release of Roll the seems to be going through the soldiers, and the guitar pumped out Bones, a new album by the prolific motions, and does not perform with by Alex Lifeson is talented, yet Lee K-Mart anyway. Prince teams with The New Power Generation

In this album, there

are a unique mix of

beats, instruments

and vocals.

by Brad DeMay Photography Editor

Snake Eyes..."

by Kelth Towers

Rush rolls the bones.

Prince is up to his old tricks again. His new album Diamonds and Pearls is another exploration into any type of music that he has not done before. For this album Prince teamed up with The New Power Generation.

In this album there are a unique forty and then to mix of beats, instruments and music vocals. The first and probably best sounds like it ______ doesn't contain, fan then this album contains a few song on the album even has in it came off of one of his solo albums. that many other of Prince's albums examples of his musical talent that what sounds like a sitar. There is If you have the CD, searching for have contained, is any outright con- are worth having. some good music in this album. the music you are in the mood for troversial material.

However, there are some things that would not be so difficult, but if you don't quite work. The first and most have the tape searching around for noticeable fault is that the album that certain track could be annoying, plays like a radio station. The music

lackluster performance from the

band. The album is the first to be

released since Presto, which was

two years ago, and in that time, the

group seems to not have had many

great creative insights to contribute

There are three songs to note that

stand out from the rest of the crowd

on the album. "Dreamline," the very

first song on the album, is the song

that will probably do the best as far

as single releases go. More emotion

is shown in this one song than in

any other song in the album.

that sounds like current rap, to that music sounds like top

three-man rock group Rush, comes a feeling on any other song besides seems to have no interest in making

Another song of interest is

"Where's My Thing (Part IV,

"Gangster of Boats" Trilogy)." This

instrumental proves to be a nice

variation in a monotone album. The

track has a jazz quality, with a very

good bass line and a nice beat is put

out by drummer and group lyricist

The last song to note is "Heresy,"

which has some stirring lyrics refer-

ring to the recent fall of

Communism, and asking "All those

precious wasted years; 'Who will

"Dreamline,"

Neil Peart.

As an artist, Prince has always style oscillates wildly from music been socially aware, and it has been reflected in his

music. This album is no exception to the rule. One thing that this album

This album is not one to pop in the stereo to sit and listen to. This is an album that comes off the shelf when you want to listen to a certain

Because of that I can not recommend spending the money to get this album to anybody who is not a die hard Prince fan; I would recommend using the money to get one of his earlier albums. If you are a Prince

Do not forget to see Out For Justice, playing this week in the S.C.!



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accurately and

fully in many

parts of the

King plagiarized dissertation

BOSTON (AP) - Martin Luther er in the civil rights movement and King Jr. plagiarized the writings of others in his doctoral dissertation, but that act shouldn't tarnish the Nobel Prize winner's reputation as a civil

should not result in Boston University rending King's doctorate, adding that his work still has scholarly value.

King, who wrote the dissertation in 1955, was assassinated in 1968. He won

the Nobel Prize for peace in 1964, "While Dr. King was at fault for failing to cite sources accurately and fully in many parts of the dissertation, this fact does not detract from his/enormous contributions as a lead-

as a symbol of accomplishment and vision for all people," the committee said in a report released Thursday.

The group recommended a letter rights leader, a panel of scholars said. spelling out its findings be placed The panel also said its conclusions with the copy of King's dissertation in the university's "While Dr. King was

Mugar Memorial Library. The full report also will be filed

there. BU Provost Jon Westling has

dissertation..." accepted the committee's recom-"I think it is so good to get this behind us," said John Cartwright, Martin Luther King professor of

social ethics at BU and a committee

Shoshone-Bannock

Tribes stopped the

truckload of radioactive

waste at the reserva-

tion boundary

The report said King "plagiarized in the dissertation by appropriating material from sources not explicitly credited in notes, or mistakenly credited, or credited generally and at some distance in the text from a close paraphrase or verbatim quota-

Cartwright said the committee refrained from speculating about why King did not properly attribute some

The committee was established by the university in November 1990 to determine whether plagiarism allegations against King that surfaced earlier that year were true.

King wrote "A Comparison of the Conceptions of God in the Thinking of Paul Tillich and Henry Nelson Wieman" in 1955 as part of his requirements to attain a degree of doctor of philosophy.



Not so great...

contending the shipments

violated property right

terms of the federal gov-

ernment's 1869 treaty with

the tribes...

A committee has found that Martin Luther King Jr. plaglarized his dissertation.

Shoshone-Bannock Tribes protest nuclear shipment

BORT HALL, Idaho (AP) - A third shipment of nuclear white from Colorado reached Idaho early Wednesday en route to the Idaho National Engineering Laboratory, but the shipment was turned back at the edge of the Fort Hall Indian Reservation.

Police officers of the Shoshone-Bannock Tribes stopped the truckload of radioactive waste at the

reservation boundary. Tribal Officer Ira Waterhouse Jr. issued

the driver a citation for violating a tribal resolution adopted in January banning nuclear waste shipments until the Department of Energy reaches agreement with the tribe on how the shipments will be

Marvin Osborne of the Fort Hall Boriness Council, said the Shoshone-Bannock Tribes Small of Blaine County and Ron Folkinga, Buhl. wanted to force the Department of Energy to pay attention to the resolution.

They sort of made us mad and a little upset for ignoring us. They thought they could push us around," Osborne said. "We turned them around. We wanted to cite them and stop them, let them know we're dead serious."

The 550,000-acre Indian reservation in eastern Idaho is mutheast of INEL, a federal nuclear research installation. faterstate 15 runs through the reservation north of

The shipment was from the decommissioned Fort St. Vrain nuclear power plant at Plattville, Colo., operated by Public Service Co. of Colorado. After the state lost legal battles to stop the shipments,

Wo truckloads entered the state earlier this month. The tribes filed a federal court lawsuit on Tuesday, con-

anding the shipments violated property right terms of the

federal government's 1869 treaty with the tribes, provi- Regulatory Commission and Idaho State Police to decide sions of the National Environmental Policy Act and the Indians' constitutional rights.

There was no immediate court ruling, but tribal officers accomplished the same thing, at least temporarily,

Idaho State Police said the waste shipment arrived at the Port of Entry checking station at about 1 a.m. After an 80-minute Police officers of the

inspection, the truck was allowed to proceed north. State Police said three men were arrested at Jakom they attempted to

block the truck, one of them for the second time. The men were identified by State

Police as Bill Chisholm of Buhl, Will All three were booked into the Bannock County Jail at

Pocatello on a charge of failure to obey a lawful police order. Chisholm also was The tribes filed a federal arrested Oct. 5 when the first shipment court lawsuit on Tuesday,

The truck turned around at the Fort Hall Trading Post and went back to Inkom.

Steve Sherrow, coordinator of the shipping project for Public Service Co., who was in a car following the shipment, said it wasn't immediately decided whether the shipment would return to Colorado or seek an alternate route to INEL that does not cross the reserva-

Mark Severts, director of media relations for Public Service, said what comes next is under discussion. "We are Vrain near Denver between 1980 and 1986 already is discussing with the Department of Energy, the Nuclear stored.

what is the best thing to do," he said. "I do know they are looking at a variety of options."

Seeking an alternative route is under consideration, Severts said, but the route taken would have to meet NRC

Joe Gilliland of the regional NRC office at Arlington, Texas, said the agency is monitoring the situation.

"We have an inspector in the area and we are being kept informed on the status of the shipment," he said.

Severts said Public Service feels it is being caught in a tug-of-war between two agencies.

This is very unfortunate. Public Service is caught again between two feuding entities, the Department of Energy and the Shoshone-Bannock Tribes.

We are very convenient pawns for the Sho-Bans to force the Department of Energy to pay attention to their needs," Severts said. The lawsuit filed by tribal attorney

Jeanette Wolfley seeks an immediate temporary restraining order and a permanent injunction against the shipments.

It also asks the court to order

the Energy Department to conduct an environmental impact statement on shipping, handling and storing the waste. The Energy Department and

Public Service have said they plan to ship 247 truckloads of spent fuel rods, totaling

about 300 tons of waste, within one year, About 120 truckloads of waste shipped from Fort St.

Gekas tries to limit death penalty appeals

WASHINGTON (AP) - An amendment intended to limit federal death-penalty appeals while expanding capital punishment to a handful of additional crimes has been endorsed by

The amendment, sponsored by Rep. George Gekas, R-Pa., was added to the chamber's omnibus crime bill Wednesday, 213-206. The amendment was supported by President Bush and state Attorney General Ernie Preate Jr.

In a statement released by his office, Gekas said the amendment would "curtail those appeals and bring swift and certain judgment to the convicted, coldblooded killer where a jury has already found him guilty of murder." The House Wednesday began considering dozens of amendments to the crime bill; the debate was expected to continue today. Gekas' proposal would extend the federal death penalty to sexual abuse and child molestation cases that result in death; murder in the course of committing a drug felony; and gun murders in violent federal crimes. It also expands the definition of a drive-by shooting that would be subject to the death penalty.

Another provision would require death-row inmates to file federal post-conviction appeals within 90 days after exhausting their state appeals, a change intended to clear impediments to executions. Other changes would allow the death penalty to apply in certain cases when a defendant showed a "reckless disregard for human life." The bill previously required the act to be intentional before the death penalty could apply.

Earlier Wednesday, Preate, speaking after a ceremony at the White House, said the Democrat-drafted bill would "obliterate" the state's death-penalty law unless amendments from Gekas and others were approved.

The House crime legislation would ban 13 types of assault-style weapons, authorize spending \$1.1 billion for state and local police and apply the death penalty to 48 federal

Bush has favored the Senate's legislation, which would provide more aid for police and apply looser standards for 51 capital crimes. Like the Gekas amendment, the Senate version would allow executions without requiring prosecutors to prove defendants intended to kill their victims.

The Gekas amendment also was consistent with the Senate version in limiting to 90 days the period in which death-row inmates could file federal appeals challenging their state con-

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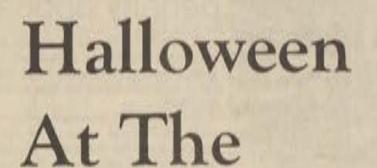
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For the Kids

Trick-Or-Treat at the Daytona Beach Marriott and Clocktower Plaza Shops — All little witches, ghosts and goblins are welcome to get their treats.

Halloween Night from 4 - 9 pm

For the Kids and Adults

Haunted House to benefit the Volusia/Flagler
Division of the March of Dimes
Halloween Night 4 pm - 12 Midnight
(Plaza Level the Daytona Beach Marriott)
\$3.00 Adults - \$2.00 Kids
Entire Family \$10.00

For the Adults Only

Q-96 hosts a Freddy Krueger Funeral Party
On August 31 Freddy Krueger was killed on Nightmare on Elm Street
... On October 31st, Freddy will be laid to rest...What better excuse
to have a party?...A Nightmare on A-1-A!

Pay Your Respects And Win Costume Contest

96 Dollars Every Hour will be given to
winners of the following categories:

• Best Freddy Krueger Costume • Most Creative

• Scariest • Most Original

• Best Overall

Finalists In Each Costume Category

will compete to win a Haunted Tour for Two. Take a limo ride to Terror on Church Street Station with dinner, a visit to other Central Haunted Locations and a One Night Stay in the Haunted Hotel.

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