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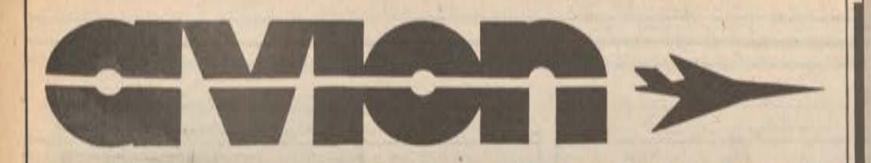
4-4-1990

#### Avion 1990-04-04 (B)

**Embry-Riddle Aeronautical University** 

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#### Inside Section B:

States and other countries is

mostly paperwork.

Classifieds......B7 Space Technology..........85 Notices.....B7

#### Aeronautica

Volume 64, Issue 11

#### TBM 700 receives first airworthiness certification

photocarboy Acopolists



New concepts...

The newly certified TBM 700 has met with positive feedback from consumers who say they like the idea of a high-performance corporate aircraft.

by Joseph A. Salerno Aeronautica Editor

One of the newest concepts in airplanes today is the Franco-American TBM 700, a cabin-class, single-engine turboprop designed jointly by Acrospatiale and Mooney (70- and 30-percent partners respectively). It is powered by a 700-shp Pratt & Whitney PT6A-64 engine which is classified as a 'mature engine' and is capable of 1.485 hurdle of basic aircraft certification from the French civil thermodynamic horsepower. The wing for the plans was avation authority DGAC, after four years of development

designed from a 'clean sheet of paper' and the overall design of the plane is remarkably streamlined, with speed capability in excess of 300 knots. As a result of the engine being placed far forward of the cabin area, there is very little if any noise from the engine and no engine vibration, Certification

The TBM 700 has finally cleared its first real regulatory

Next to its first flight, this is the second most important milestone in the evolution of the airplane, says Pierre Gautier, chairman of TBM s.a. supervisory board.

Says Claude Lelaie, director of TBM700 design and development, the ruling issue on Jan.31, 1990, "guaran-

about the TBM's basic design and performance capabilities. Ninety percent of what's left Ninety percent of what's left in the in the certification process in certification process in the United the United States and other countries is mostly paper-

work. It is expected that basic FAA certification up through PAR 23 Amendment 33 will be received, and then the

THM will undergo supplemental certification for IFR ticularly the interior, so that input from the North operations and icing conditions. Complete certification is American flying community can be considered and incorexpected by mid-1990 and deliveries are scheduled to begin in July.

Interest in the concept of a high-performance personal/corporate aircraft with a single turboprop engine has continued to grow since the introduction of the TBM 700 at the 1987 Paris Air Show. To date approximately 45 orders and 10 options have been placed for the aircraft. Prototypes

The TBM 700 has a total of three prototypes in the air with the successful first flight of prototype number three on Oct. 11, 1989.

According to Alain Aubry, president of TBM s.a. executive board, multiple prototypes provide test bods for the ongoing certification process while allowing one

prototype to serve as a demonstrator for the marketing effort. Prototype number one, which made its maiden flight in July 1988, has accumulated more than 363 flight hours in 287 flights. Number two, which made its first flight in August 1989, has flown 104 hours in 91 flights. Since Ocjober, prototype number three has accumulated 72 hours tees production of the airplane and validates everything in 69 flights. Number three also is scheduled to begin a

six-week demonstration tour of the United States.

Demo tour

Having begun last March, the North American demonstration tour of TBM prototype number three is intended to be more than a formal unveiling for potential North American buyers.

Claude Lelaie Another purpose of the tour is to test market the airplane, par-

porated into the final production model. To test its heating and cooling systems, the tour will also expose the airplane to a wider variety of environmental conditions and temperatures.

Brant Dahlfors, vice president of sales and marketing for TBM North America, was one of the first people to experience prototype number three in flight after the instalation of environmental control, sound-proofing, and air ducting systems. "I felt the noise level was extremely good," Dahlfors says, "It will undoubtedly provide for a much more comfortable cabin environment than has ever been available before in a single-engine airplane. In fact, I believe it's actually quieter than any turboprop twin that I've ever been in.

#### laminar flow research continues

by Joseph A. Salerno Aeronautica Editor

The latest phase of ongoing tosearch into a technology that could sharply improve aerodynamic officiency of future airreaft is a series of recent wind-tunnel tests at Boeing Commercial Airplane Group: The texts have set the stage for in-flight trials expected to start within two months.

The research is aimed at preventing sturface could much of the turbulence, which in- compromise creases skin-friction drag and fuel structural soundconsumption, that occurs naturally in flight on the boundary layer of air the thin layer immediately next to the Jenge surface of a wing or other parts of the airframe.

It was shown by early research that careful shaping of the wing could achieve some laminar flow, but this approach, known as natural faminar flow, works only under rather

ful technique, called laminar flow control, extracts a small amount of the slotted wing skin by means of a suction system.

tions, too, as the

holes or alots along major portions of the wing neas, but Boeing has met this chal-

tion known as hybrid laminar flow control (HLFC), which limits the air extraction system to just the leading edge, followed by a run of natural Inminar flow

The HLFC concept was tested in

restricted conditions. A more power- late 1989 on a simulated section of measure the amount of laminar flow wing during more than 300 hours in a Boeing wind tunnel, whose leading boundary layer air through a porous or edge was fitted with a specially fabricated skin made of titanium perforated with two million tiny holes Laminar flow control has limita- drilled by an electron beam and spaced 1/20 of an

inch (0,127) apact. Air over the lead-...this concept holds potential for reducing tructed through the

nir to maintain a laminar flow on the leading edge.

During the wind-tunnel tests,

obtained, and results confirmed that eareful design of the wing had obtained laminar flow for up to six feet (1.83 m) beyond the perforated leading edge. This combination of active control by suction followed by a run of natural laminar flow is the basis of

It is believed by Bocing's reing edge was ex- searchers that this concept holds potential for reducing fuel consumpholes into a series of tion of an airplane by up to 10 percent long metal channels or even more, depending on length of light and extent of HLFC application on the airframe.

Beginning in the second quarter of developing and patenting a new varia- ejector pump created a gentle suction this year, flight testing of the HLFC in the flutes, drawing in just enough concept will be conducted under a cooperative program which is jointly funded by Boeing, NASA, and the U.S. Air Force, and will be done on a

the span missing.

"This is a very significant and far

reaching development

in aviation..."



Boeing researchers used a sensitive Boeing 757 jetliner. It will be the first developers at the Boeing wind tunnel facility test a laminar flow wing construction which has met with success.

#### NASA developes reconfiguration system

by Joseph A. Salerno Aeronautica Editor

NASA research pilots have met with success during testing of a flight control system that detects in-flight failures and automatically reconfigures an aircraft's ailcrons, rudders, and elevators, allowing pilots to continue their missions or land safely.

The fina system of its type in the aerospace industry, the self-repairing flight control system has been demonstrated on NASA's F-15 Highly Integrated Digital Electronic Control research aircraft based at Ames-Dryden Flight Research Facility, Edwards, California.

The primary purpose of the system is to detect damaged flight control components and adjust undamaged flight surfaces so the pilot can maintain good aircraft response, and when a failure is sensed, the system will select the best pre-computed solution from a set of control laws loaded into the F-15's computer. The system also can constantly monitor subsystems throughout the aircraft to diagnose and identify failures that are hard to repeat and

isolate during post-flight maintenance. This is very significant and far reaching development in aviation," said James F.Stewart, project manager of the F-15 research program at Ames-Dryden, "Once it is fullt developed and both fuel and avionics in addition to operational, the self-repairing flight control concept could greatly increase tactical aircraft survivability in combat and enhance safety during training missions. It also has the potential for adaptation to civil aircraft, enhancing aircraft and passenger safety.

NASAresearch pilot James Smolka, flying at Mach 0.7 on the initial self-repairing system demonstration flight, purposely locked the F-15's right horizontal stabilator to represent a failure of hydraulie or electronic systems, whereupon the self-repairing system instantly reconfigured the remaining stabilator, ailerons, and rudder to establish aircraft pitch and roll control with the right stabilator remaining in the "failed" state.

The system correctly identified the "damage"

and reset the other flying surfaces to restore normal bave facilitated repair work to return the plane to controlled flight during a battle damage scenario in which control effectiveness of the right stabilator was changed to simulate flight with 80 percent of

The pilot receives new flight limits, such as reduced speed or maneuvering loads that the failure

or battle damage may impose, during selfrepairing system activation, when a preprogrammed visual warning appears on the cockpit heads up dis-James F. Stewart play that explains the type of system failure.

The maintenance dianostic capability of the self-repairing system was demonstrated by five types of failures programmed into the F-15 research aircraft's flight computer, each selectable by the pilot and set to activate only under specified maneuver conditions. The system was able to identify all five intermittent electrical, mechanical, and hydraulic faults, and after the F-15 aircraft returned to Ames-Dryden, the failure data and appropriate repair instructions were displayed on a ground station screen that would program.

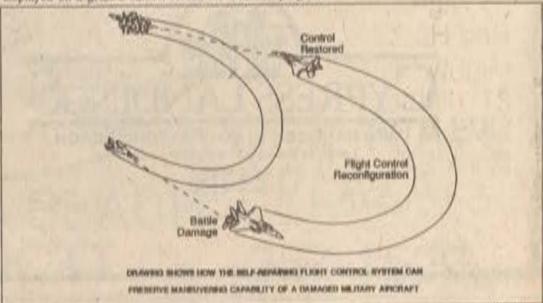
100 percent flight status.

Before the technology is used in future aircraft designs or retrofitted on existing aircraft, an advanced self-repairing system is expected to be developed and thoroughly tested. The operational envelope of such an advanced system may include landing tasks, supersonic speeds, and flight in automatic terrain-avoidance and terrain following

Feasability studies on the system began in 1984 at the Air Force's Flight Dynamics Laboratory, Wright-Patterson AFB, Ohio, Ground-based and in flight simulators verified the data before development of the system demonstrated on NASA's F-15 research aircraft.

Tom McMurtry, chief of Ames-Dryden's Aircraft Operations Division and Ames-Dryden chief test pilot Bill Dana are other NASA pilots

taking part in the system development. McDonnell Aircraft Co., St. Louis, and General Electric's Aircraft Control Division, Hinghamton, N.Y., developed the self-repairing system under contract to NASA's Ames-Dryden facility. The U.S. Air Force Wright Research and Development Center, Wright-Patterson AFB, Ohio, sponsors the



NASA practic



The new Chance-Vought YA-7F, a derivative of the Corsair II, employs new wing structures, a lenghthened fuselage and a new powerplant.

#### Vought releases the YA-7F close air support aircraft

by Ron Young Aeronautica Writer

The YA-7F, a re-engined and modernized Air National Guard A-7D, has successfully begun its flight test

The YA-7F is an upgraded A-7D Corsair II designed to provide a unique combination of responsiveness. lethality, and survivability. The airframe modification program is one of the most extensive upgradel ever done on an in-service aircraft.

The aircraft is CTV's direct response to a U.S. Air Force request for an interim aircraft to fill the Close Air Support/Battlefield Air Isterdiction (CAS/BAI) requirement.

CAS/BAI involves close air support of friendly ground troops engaged in combat with the enemy on enemy territory. It is an integral part of the way the U.S. Army intends to fight the next war - currently referred

to in military doctrine as the "Air Land Battle.

Airframe enhancements

Modifications to the A-7 include both wing and fusclage alterations. Externally, the most obvious change is fuselage length. Plugs of 18 inches aft and 29,5 inches forward of the wing provide additional space for redistributing the proper weight and

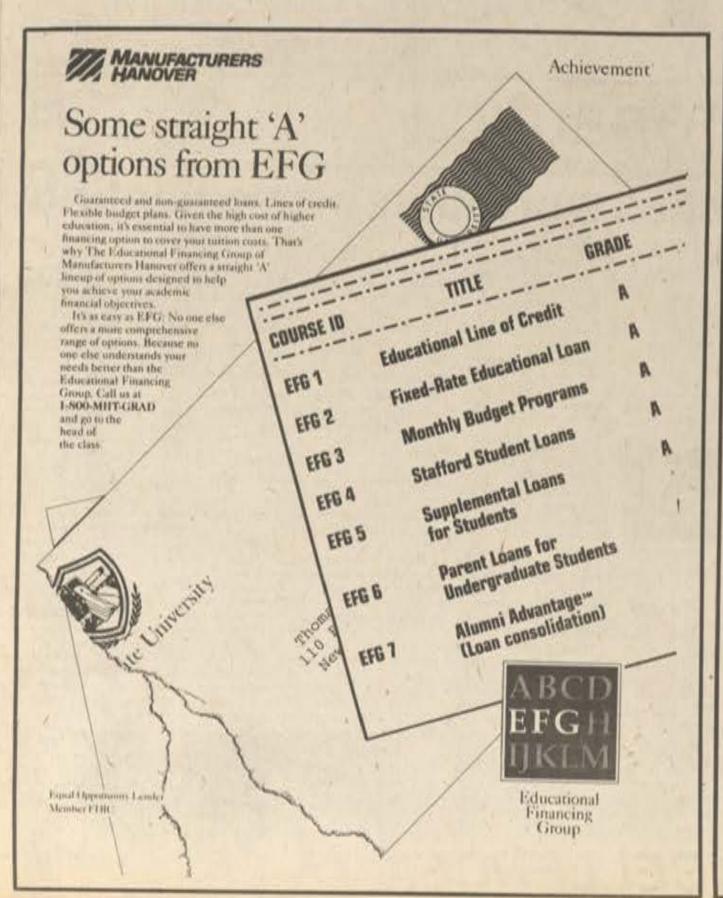
Strakes, lift dump spoilers, and trailing edge flap augmenters are included into the new wing design and aid in a reduction of both landing approach and touchdown speeds, A 20 percent decrease in landing ground roll also benefits from the new wing denign

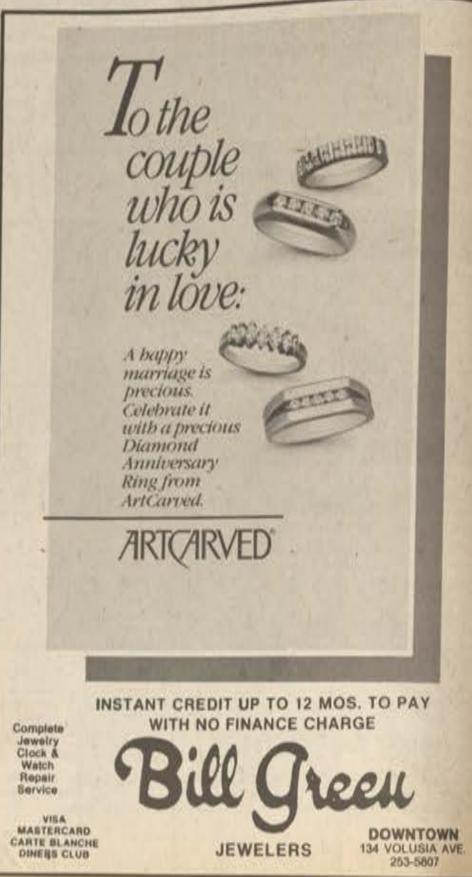
The YA-7F also incorporates a new the front lines and air strikes deep into vertical tail fin cap for additional stability during high angles of attack. Engine configuration

see Vought, page 89

fuel consumption of an airplane by up to 10 percent... or flutes bonded to the reverse side of the titanium skin. An

instrumentation on the wing surface to in-flight evaluation of HLFC.







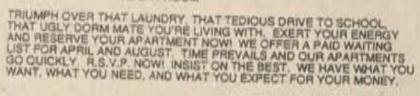
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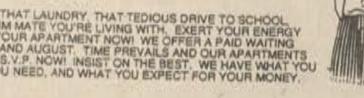
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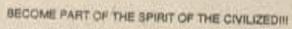
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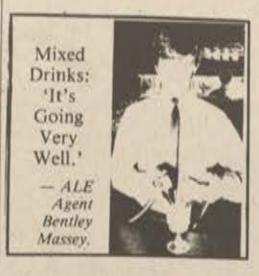




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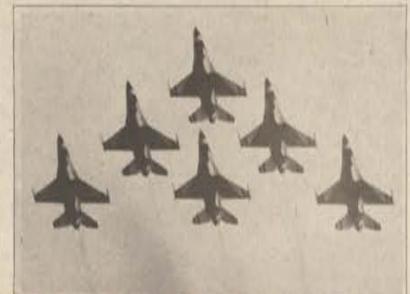
















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Tuesday-Amateur Male Dance Contest \$200.00 Cash from East Coast Gym & Baggy Boys Active Wear. 608 N. Halifax Dr. Free Drinks and Mugs from 6-8

Wednesday-Bikini Contest \$400.00 Cash from Gallery Magazine. Swimwear by Jimmy Z from Bikini CO. 504 Seabreeze. Free Drinks and free mugs from 6-8

Thusday-Best Legs Contest \$500.00 Cash from Nair. Free Drinks and free mugs from 6-8

Friday-Wet-T Shirt Contest \$200.00 Cash from 20th Century Fox. Free Drinks and Mug from 6-8

Saturday-Female Best Body Suite Contest. \$200.00 Cash from Jacques Moret Body Suits supplied by Jacques Moret. Free Drinks and mugs from 6-8







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Excitod...

Kathryn Sullivan is fully suited up during training procedures for her next flight aboard *Discovery*. Although no EVAs are planned, the crew practiced several maneuvers should they become necessary in the deployment of Hubble.

#### Hubble launch draws near

Lift off to be attempted two days earlier after readiness review

...the shuttle will fly a 320 mile high

orbit...NASA hasn't flown any

spacecraft that high since the Apollo

moon missions...

by Jose L. Vazquez-Delgado Space Technology Writer

At the conclusion of last week's flight readiness review, NASA set April 10 as the target date for the launching of the Hubble Space

The STS-31 launch window opens at 8:45 a.m. and closes at

11:15 a.m. Duration of the mission is five days, one hour, and 15 minutes and Discovery will be returning to Edwards AFB in California.

The original launch date for this mission was April 12, but because workers were ahead of schedule, the date was moved up by two days,

During this mission the shuttle will fly a 320 mile high orbit being the highest orbit flown in the shuttle program. NASA hasn't flown any spacecraft that high since the Apollo moon missions back in the late 60's and early 70's.

While the astronauts are orbiting the Earth at a speed of 18,000 mph, they will conduct medical research after the Hubble deployment is accomplished. The Hubble Space Telescope will be released during the second day of the mission. The orbiter will

then follow Hubble for two days while all systems onboard the telescope are checked out by ground controllers.

In the eventuality of any malfunction, the astronauts will grapple the satellite with the remote manipulator arm and stow it back in the cargo bay for return to Earth. If kept in orbit, a two to four month systems check will be conducted before the telescope is

declared operational and any pictures

are taken.

Astronauts McCandless and Sullivan, who have been space walk training for this mission for the last five years, will be able to perform a contingency space walk if the need

The telescope has graple fixtures and maintenance panels with easy accessability for in orbit shuttle repairs.

The five man crew, Shriver, Bolden, Hawley, McCandless, and Sullivan, are all prepared for America's most impressive scientific payload of this decade. The Hubble Space Telescope will be the most exciting payload ever to be deployed from the shuttle and the first of NASA's four great observatories to be launched this

#### Space walk tests station systems



Free flying. Bruce McCandless performed the first free flight EVA in 1984. EVAs have not been a feature of the past several missions, but many are planned on upcoming flights to test the systems for space station Freedom.

Space Technology Reporter

The last time the U.S conducted a space walk was in 1985, and for that reason NASA plans another in

his been five years since there has been an EVA (Extra Vehicular Activity) and the first opening for such a mission will be this November. After the Gamma Ray Observatory is released, the cargo bay will be empty, allowing NASA to brush up on their EVA techniques,

The plan is to text out future space station equipment, NASA will be relying on RVAs to construct and maintain the station, which NASA has little experience

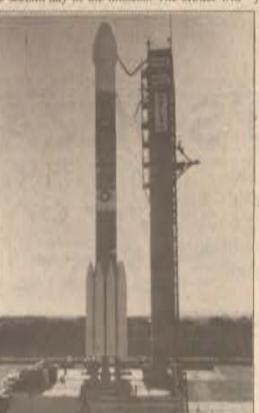
The use of carts will be used to accelerate astronauts the length of the beams instead of the tedious hand over hand method currently being used. If the astronaut work load can be decreased, the endurance and productivity

For many ground controllers, the EVA will be a new experience due to a changing workforce. For NASA, it's time to practice its techniques.

Astronauts Jerry Ross and Jay Apt will perform the space walk. During the walk the astronauts will test three different carts designed to slide along beams. The total cost of the equipment is \$5 million which can all be directly applied to the space station.

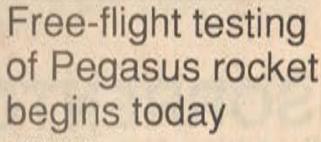
The spacewalk will be looked at closely by station designers as the construction phase of flight hardware is slowly approaching. Designers are not yet certain on whether or not to depend on robotics or EVAs for construction and maintenance of the space station Freedom.

STS-31 may entail an EVA if the deployment of Hubble needs assistance.



Monday?..

If Discovery's launch is not attempted Tuesday, a McDonnell Douglas Delta Il rocket is scheduled to lift off from Cape Canaveral Monday at 6:28 p.m.. The rocket launch will occur Thursday at 6:29 p.m. if STS-31 lifts off as planned



by Derrick Seys

Space Technology Editor

The Pegasus rocket may surpass a testing milestone today by being released from a B-52 aircraft over the Pacific Ocean. According to Don Haley of NASA's Dryden Flight Research Facility Edwards, Calif, the release will occur approximately 62 miles southwest of Monterey, California shortly after 3:00 p.m. EDT.

The flight plan calls for the B-52 to depart from Edwards Air Force Base at 11:00 a.m. PDT Wednesday with the streamlined Pegasus rocket under its wing. Inflight tests will be conducted during the one hour climb to 45,000 feet.

This test will be the first release of an inert vehicle and be a dress rehearsal for upcoming tests.

After successful drop tests of the inert vehicle, an active rocket will be tested. These flights will require the first-stage motor to fire five seconds after Pegasus is dropped from the B-52 pylon. In an actual mission, two more stages will carry the payload into orbital altitude.

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

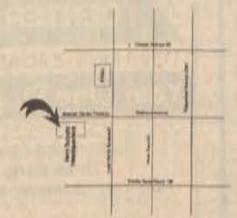
Last February, the final captured test occured and no problems grose. This allowed Orbital Sciences Corporation, builder of the vehicle along with Hercules Corp., to proceed with free-flight tests,

"The Discount Pilot Supply Store"

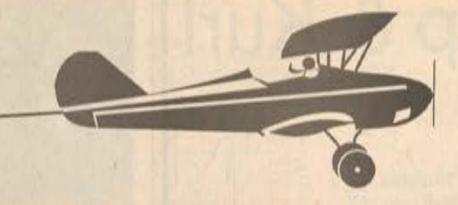
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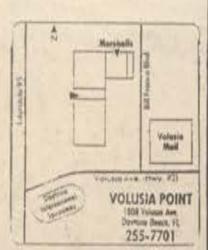
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#### CLASSIFIEDS-

#### Notices

#### Graduating Seniors receive a reminder

If a prospective employer requests an official transcript for a job interview, we must have a written request from you before that information can be released. For your convenience, be sure to fill out a Transcript Request Form with the Records and Registration before leaving campus. Scholarships Available

Applications for Orville Redenbacher's Second Start Program are now available in the Financial Aid office. Ten \$1000 scholarships will be made available to qualifying students for the 1990-91 school year.

To be eligible, the student must be 30 years old or older at the time of application. Recipients may enroll in either an associate,, bachelor, or graduate degree program at an accredited college or university and can be either full or part-time attidents. The deadline for the application is September 1, 1990

#### University Bookstore

The University Bookstore cashiers are accepting orders for faculty/staff academic apparel for April's Graduation.

#### Parking Policy

Effective immediately, all regulations concerning parking violations are Attention April Graduates being enforced for ERAU student vehicles and other vehicles,

#### Management Club hosts FAA Administrator

The Management Club will emercain James B. Busey, the FAA Administrator here at ERAU on April 10, 1990 from 10 a.m. to 2 p.m.. The point of contact for this endeavor is Tracine Anderson, box 7614,

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Roommate Needed for Summer A and II in 3

Sedmont, 2 bath house. Call 676-2909,

→ Miscellaneous

Citation Jet Time-Become Citation jet

qualified. Includes jet systems ground school,

advanced crewmember training, jet flight

time and all materials. When finished you

will be signed off and Citation Jet co-pilot

qualified 5995 guaranteed Call 253-2378 or

(407) 330-4670.

ERAU Call Jeff at 760-7417.

\$270 mo. Call 257-6951 after 4 p.m.

Call 257-6951 after 4 p.m.

5001, evenings.

phone 677,7911

677-4332 for more information.

\$100. Call Jan at 761-2021.

serrisves replins please.

For complete densils call Jeff at 767-5917,

weekends all day

5037 or box 6720.

+ Roommates

#### + Autos for sale

1987 Cheveroles Hutenport Wagene-Silver takes it obo. Leaving, Call Ray at 788-3095 uny, 17000 mi., excellent cond., Ph. PB, anto door looks, mar gate opener. Stereo and catsette Fuel injection, may delouger, AAC auto impamission, crides control. Velour apholeury, luxury floor mais, delayed action 1989 PZR 1000 Yamaha-Slip-on header, wipers, remote control mirrors. \$7995. Call Josephine at 239-5800.

1974 Mercedes 450 SEL (Quay tearlest car). loaded, well maintained (books from new). high mileage, but runs very good. Asking \$4000 obs. Call 235 8546. Serious impurior

1968 VW. Bug-Surport, rebuilt transmission, 1600 co angine, runt good, must see \$995 obo. Call 239-6940 (8 s.m. to 5 p.m.) in 761-6391 wher 5:30 p.m.

1984 Benue-40000 mi, new cons, 4 by 4 drive, excellent shape, \$6000 one. Call 25a-

1983 Charger A.C., 2.2 liter, good condition. Artist price \$2200 sacrifice for \$1000 Call

1974 Datem 2002 G plus 2)-No not. mently primed. New carpet, mag wheels, very clean, \$1095 one. Call 239-6940 (8 a.m. Nr 5 p.m. nr 761-6391 after 5-30.

1986 Chevy Auto 8 Parampor Vano-Vomionatis, AM-FM carsetts aureo PS, PR, PW, silver gray, tike new, one owner, also has book to pull trailer. Very good on gas. I will take a trade in for an automatic car Toyera, Nissan, or Henda, 1986 and up. Call 788-0751 ait day till 11:30 p.m.

1977 Toyota Celica CIT-In good cond. 3730. Orohaming must suff. Call Rob at 253-1125.

1977 Caprice Clarate 2 dr., PS, PB, AC, CC, For Rent Available April J. Glean, AM/FM Cass., VII, painted last summer. Fair cond, Must Sett. \$500 abo. Sea row at Dorm II toxin 356 (Juff).

1979 Cenca OT-Raliable Transportation, sold sir, sunscot, siemo, \$800 obo. Call 756-

Attention Covernment Serzed Volicius from Very dry, big, beautiful, historic landmark. \$100. Fords, Mercedes, Corvetius, Chevys. Professional socied and residental, \$110000. Supher Buyers Chails. Call 1-602-838-8885 cash. Call 258-5901, evenings.

#### + Cycles for sale

1987 Sozoki GNX-R 1100 Blue and white Yeshimura exhaust, Militari umba, brand new Meuder meing compound tires. Very fast. Call Kenyon at 238-3345, only those series

1981 Kawasaki CSR 750 Good cond Dependable: Asking \$650, Call 282-5388 or (407) 323-9797.

1986 Hoods film 230 Scoons-Hought new 30 spring '87, 50 mpg, only 3K min black with gold trim, power and hydrica included, are condition. Graduating, must sell. \$1700 9be. Call Scott 274-4161 or box 2731.

Couno Coir Moped - Kuns good, looks good 199 obo. Contact box 7753.

for Sale Motorcycle Trailer. Three channels his up to these montrayeles. Includes tisdowns 3150 obs. Call Date at 258-0269.

1986 Ninja 600-Int toned, New Meidlers. bewer down, same strong, great coul. \$2100 firm. Call John at 254:6863.

KZ 650 Great Shape, must see. Asking 5700 Obo. Call Joe at 218-7422.

#### Free Information

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

#### Students anticipating summer '90 degree completion

We suggest that you fill out your Degree Completion Application for a Preliminary Evaluation for Degree Completion. Your evaluation can be used to check that the courses you may have Advanced Registered for are correct. Any changes can be made before the summer terms begin.

Applications are available in the Registration and Records Office on the Second Floor of the John Paul Riddle Student Center Extension.

The final meeting for April Graduates will be held in the Student Center on Monday, April 9, 1990 at 8 p.m. All details concerning commencement, cap and gown pickup, etc., will be reviewed at that time. Since there is no rehearsal for Graduation, it is important that you attend. Voting for Outstanding Faculty and Staff Awards will be conducted.

If you are unable to attend, please stop by the Student Activities office.

intersection of Clyde Morris and Catalina. Contact Dorm II, Room 211. Please. Call Fron at 239-6811 in Flight Maintenance.

Lost-1 weight lifting glove. Rafael Daniels. Blue back and and grey leather front. If you custom seat and grips. 8000 mi., cover. have the glove or know where it is, please call included. Call John at 257-7831 or (407) 327-Jim at 255-4663 or box 5427, leave a

> Attention All Sconters-II you are interested in getting involved with local Scott troops or Explorer Posts either now or in the Pall please let me know. The local GA chapter is in need of responsible help of all ages. Call Dunne Bird at 239-9672 or box 8020.

I need a witness to an accident that occurred. For Sale--Light brown couch. Very good. For Sale--Flight Acct at Eagle. Nearly \$500. Monday, March 26 at 4 p.m. at the cond. Seats 4 comfortably. Only \$50 tieg. credit. \$100 else. Contact John at box 8635.

Best offer, Call Scott at 767-9005 and leave a

For Sale-Yunaha Compact Disc Player.

Only \$80. Call Brian at 255-7819.

For Sale-Graduating Mun Sett. Deak.

bookshelf, table and chairs, lazy boy rocker.

For Sale-Apple Ile computer, 128K, monitor, disk drive, and printer. Call Joe at 676-2909.

For Sale-15 in, RCA Color TV, Good \$123 obo, Call John at 767-1356 after 7 p.m. condition, \$50. Call Jim at ext; 6640.

Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.

CLASSIFIED AD POLICY

All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.

Commercial advertising is available through the Avion advertising department.

Classified advertising is carried out by filling out a classified ad card in the Avien office. Only one classified ad per card. Name and address

of advertiser must be included for the ad to run. Ads will run for two issues and may be renewed by filling out another classified ad card.

No classified ads will be accepted over the phone. For more information, stop by or call the Avion office at (904) 239-6049:

Need a paper typod? Let me do it for you, Typed. Spelling and grammar corrected, only 51 a page. Call Mart at 255-3057, leave a тенналі

8-14-90), 2 bufnson, 2 buthroom, \$539 mo. Attention-Easy Work, Excellent Pay! Assemble products at home. Details. Call 1-602-838-8885 est. W-18183.

> Attention-Hiring! Covernment jobs - in your area. Many immediate openings without waiting list or test. \$17840 to \$69,485. Call 1-602-838-8855 sax R18183.

> Help Wanted-Do you know Forms and/or ADA? Would you like to earn some extra cash? I need your assistance. Please call February 761-2580 or box 2054, leave a message.

Aircraft for Rent to those interested in acquiring certificates or additional ratings. Low tental pure. For more information concerning rental, call Matt at 254-6854.

Fiam Cash on the Beach-\$20 to \$25 per Jer. possible. Call Matt at 257-5915 or box 4406.

Help Wanted-Larry's Ice Cream. Apply in person, Volusia Point Shopping Center across bath apt. from May thru July. Security, pool, from Spendway.

> Hnlp Wannet-Socretto Deli, Port Oranga. Car required. Apply in preson-

#### Misc. for sale

\* 5899 New EGA IBM Compatible \* This imopened, unbelievably low priced computer operates over twice the speed of IBM's original XT. Includes full 640K, keyboard, and EGA color menitor and card. 101 keys, A complete system ... CALL 238-7355

\* \$1399 IBM EGA AT Clone w/Hard Drive Thir unopened system operator at 15.3 times PC spond and includes Intal's 80286-12 chip. OS/2 capable. 0 Wait State, 1.2 Mag drive. Color EGA monitor and cant...CALL 238-7355

For Sale Camondale 12 speed Road Bike, \$400 obs. Contact Jeff at box 5395.

For Sale-Mens 12 speed bike, one year old in excellent condition, \$100. Overstuffed love test with hand made slip cover, \$50. Call Matt at 255-3057 or box 6767, brave a

For Sale-Diamond Engagement Ring. 3 diamond ring is centered by one marquian cut diamond surrounded by 2 round brillians cut diamonds. Mounted in 14 kamt gold. Appraised \$1150 will self for \$700 obs. Call Scott at 257-6847.

For Sala-Town and Country Surfboard, 5 ft. # in. twin fin, excellent cond., pipeline leash. 5125. Hondaline Magnetic Tank Bag. Gress cond., black and has all accessories. \$40 obo. Kenwood complete home stereo system. Includes amplifier, tuper, cassetts deck with music search and Dolby NR, turntable with cleaning disc, and 14 band graphic equalizer \$250 for everything. Call Kevin at 255-8646, leave a morrage.

For Sale-King Size Waterbod, \$90. Call (407) 323-9797

For Sale-B.C. Rich Platinum Series Warlock, \$200. Crate G-60 practice amp. \$100. One Banez Tube Screamer Clausic Distortion pedal, \$20. \$300 for everything. Call Bill at 239-6567

For Sale-Waterbed, queen size, 60 by 54, waveless, head board has book case and mirror, heater, fill kit, I sets of sheets, new cond., will deliver. \$200 obs: Call Scott at 274-4161 or box 2731.

many new and spare parts. Very Fast, fixtra motors and tires. With Futaba Magnum Jr. controller. Call Bill at 252-9292 in Down II. Rm, 330 or hox 5201.

For Sale-RC Car, Tamiya Frog: Gress const.,

Graduation Sale Everything must go. Twin bed, \$35. Nightstand, \$10. Dreezer with mirror, \$35. Chest of drawers, \$25. Dusk, \$20. Couch, \$20. Stemo cubinet, \$20. TV cabinet, \$20. Lawn mower, \$30, Call Rob 253-1125

For Sale-Surfboard Richardurg OCW, 6 ft. 3 in trifm, leash included. Awesome cotors,

excellent cond. Will ascrifice for \$165. Call Greg at 253-4071 or box 6679.

#### Graduating Seniors need Exit interviews

If you were awarded a Perkins/NDSL or Repayable Educational Assistance Loan (REAL), and a Stafford/OSL as part of your financial aid package while a student a Embry-Riddle Aeronautical University, you are required to complete an Exit Interview before leaving the University.

If you have not yet scheduled an appointment for your Exit Interview with the University Collections Office, please do so immediately

Please call 239-6040 to make your appointment. Be advised that there will a hold placed on release of your cap and gown for graduation until you have fulfilled your Exit Interview requirements.

#### Spring Break hours for Library

The Library will be closed for spring break on Thursday, April 12 and Friday April 13, Regular Hours will resume on Saturday, April 14,

#### Embry-Riddle hosts ATC examination

Embry-Riddle Aeronatical University will hold the FAA Air Traffic Control Qualifying Examination on April 7, 1990 from 9 a.m. to 1 p.m. in MO3B, the Mobile buildings near the Catalina Ave entrance to ERAU.

The test will be administered by the federal Office of Personnel Management (OPM) at no charge to applicants. The test is open to all who meet the basic requirements including: being a U.S. citizen, being able to read and write English, have general work experience and be at least 18 years old but less than 31 years old. The point of contact is Marvin Smith/A-TS at (904) 239-6448.

For Sale-Hound new sofs, 2 months old. Must sell, paid \$600, will sell for \$350. Call Rick at 767-6425 or box 6399.

For Sale Commodors 64 Computer, 1541 dick drive, tape drive, 1531 monte, some bought and some copind software fincloding a good, bought word processor and CAD program) plus joyaticks. Will need 550 worth of work, \$100 obo, Call Jim at 255-4663 or box 5427.

For Salas Air Force Issue Aurocom Headurt

#### + Personals

MY SWEET HONEY BUNNY... Did you like your dance lessons under the stary heavens on those crisp cool march nights? More to come! What's your favorise, Swing, For trot, Rumba, Cha-cha, Basanova...Lombada? Practice makes prefect, so let's do it again... and again... and again! I love you alot, Honey! YOUR LUFE LONG PARTNER.

STUDENT OF WISCONSIN, Han Together! There's a bunch of us here, let's get to know each other. If interested, contact box 6372

HEY CHRIS, Climme a call and we'll study heat transfer together. It's easier than analying alone.

SIGNED: ONE HALF OF DYNAMIC DUO

DEAR LMBG. If you want to join the PIT you've got to mally hate the Romand BIG NOSE

DEAR FIRE. No more pizza and cookies for you. Try staying upright a finte longer next time!

TERRA Oh, so that's an invisible barrier! I always wondered what one looked like. CAPE CHAOS

ARIOTTI Nice Mexicago. When's the party at the festimos? SPORT

YO GREG. Test 3 here we come. Let's do it?

HEY CLAUDE, How'd you like the 1201 Ten? Less get ready for PS202 inst. DAVE

YOU TAME AND MARTY. 107201 and PS202 have got me. Ouch. DAVE

Well, I knew what I was going to say, but now I can't seem to write it down. Maybe we can talk about it if you can find the time. I'm one up on you now.

Thanks for the rose.

swallow?

HOT

What is the landspeed velocity of an unladen THEBRIDGEKEEPER

DEAR DAD, Thanks for the vielt. Hope it was as much fun for you as it was for min!

Have a great summer, and enjoy the life of the New England Status, If you're more D.C. look me up, we'll do lunch: THE TRAVELER

You have to know these things when you're a ARTHUR, K.O.B.

TO THE 195 CRAZY DRIVER, Next time you want to charge lanes, make aum both lanes are clear!

DEAR RASH. Thank for the last 2 month, I only hope we get to share many more tegesher LOVE, MF

THE UNFORTUNATE PASSENCES.

SMACK PACK, Jewil and Baby say No Navy.

TO AH GRADS, Those deserving of an outgoing blanket party\_H. Hockner, Tim "Abonion" M. Derrick S., Bigehin Mike. BIG BIRD AND HIS DEATH SQUADS

CLUBHOUSE MEMBER STRVE, Only one more week! MHIP MP

CLUBHOUSE MEMBER SPARKY, March 27, 1990... Happy 21st birthday. We'll have a blast this weekend. Membership has its privileges. MI UP MI

MAUREEN AND RESCE, Welcome to Daytona Beach, and Spring Break 1990. MHIP ME

DEAR LAURA, Howe the Burgers and Fries treating you? THE BIG MACKID

TO THE LOVE OF MY HEART, Where are you, when I need you? THE LONELY WANDERER

TO MY ECONOMICS BUD, Glad your feeling butter, and hope you did OK on your last. THE ONE IN FRONT

LORRAINE, You are a babe and I got a crish on you. (got in line, right?) AN ADMIRER

Love is over maching, and knows no time our distance Just filling the emptiness to overflowing.

Die Shaws Die THE RAQUET BALL KING

YO, BABE IN ECON

Throw the suree out, and make room for higher class menchandise. When the time comes you'll be glad you did. Keep lookin' good and have a great summer. WAITING

I see you walk by me, and say hello. Yet you keep on going. I am a nice goy, tather an older brother of soris. Who will listen to you, let you cry on his shoulder, and laugh with you. I focus on my work, but will make time for you. Just say hi.

BILLER Con waiting.

COREEN,

we only have Orecks, it shouldn't take long to finish that section, five ya later. RINO

by Gary Larson

#### Calvin and Hobbes

#### by Bill Waterson











SUPPLIES AND GIVES STEP

BY STEP INSTRUCTIONS

FOR BUILDING, RIGGING AND DETONATING THEM

















LOOK AT YOU! HOW COULD ANY-

ONE GET SO DIRTY AT SCHOOL?

DIRTY JUST

TRYING TO WALK

THORY SHIT HIS

CATAPULT BUIT

WAS LYING IN WAIT FOR ME

DODG! OL!

COUNTY LIBRART ! YES, DO YOU HAVE ANY BOOKS ON HOME MADE BOMBS ?



WELL, IT DOESN'T

MATTER. YOU'D

BETTER GET IN

THE TUB NOW

YAH YHA

A BATHE

BUT IT'S THE

MIDDLE OF

THE AFTER-





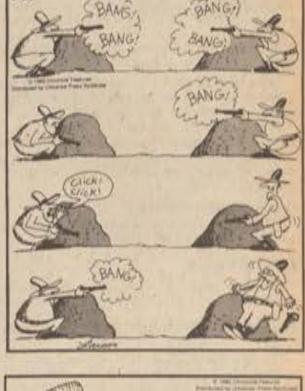




#### Far Side



"I think we should let this flock pass on by."



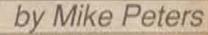


"Hey! I got one! I got one!"



"What? No tartar sauce? You'd forget your own head if it wasn't bolted on!"

#### Mother Goose and Grimm





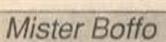












by Joe Martin

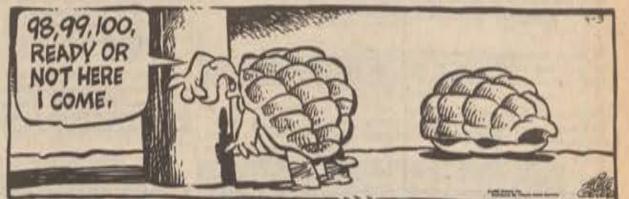












#### Cafeteria

(continued from page A2)

As I hand the cashier my card, she starts shaking her head and ticking off the violations I have committed: I tuve obtained five side orders. Bacon on the choeseburger is considered a side order.

I have cucumbers on my salad. A side salad may only consist of lettuce, croutons, and bacon bits.

Thave a small cup of frozen yogurt. Lean only purchase ice cream.

I have two juices. Only one small drink is allowed when purchasing

Where did all these rules and regulations come from? Now I have to pay the difference and apologize to all the students waiting impatiently behind me.

Morrison's Cafeteria should tone down their regulations. The system is not bad, it just needs to be revised. How can bacon on a cheeseburger compare with french fries as a side order?

As the sign indicates, two small drinks should mean two small drinks of anything. And most of all, a student should be able to purchase anything in the cafeteria, like the frozen yoguri. I predict that a simpler system would be less stressful for both the students and cashiers.

Teresa Powell Box H272

#### Jude

(continued from page)

great framework for the music,

Side one starts out with "Hallowed Ground," a heartfelt song with soul. "Baby It's Tonight," a pop influenced song pulls second position. A strong '70s tint is present here.

Side two proves to be the better of the two sides with more expansive selections of music. "Stranger to Myself" powers out right from the start with a heavy bass line setting the framework.

A song with great harmonies, most prominent being the opening one, is side. This Time it's Us." This one has

some good soul to it. Heart of Blues," a song inspired by and upward. bluck master Robert Pete Williams,

album. Jude pulls no punches in this one, ripping out some excellent blues riffs.

Though A View From 3rd Street is deeply personal, Jude succeeds in making music that anyone can comprehend. "If you tell a true story from your heart," he says, "people will know what you mean.

As for life on the left coast, the midwesterner says with a laugh, "I've learned to accept Los Angeles, as long as I stay on the unfashionable east

Street, Jude Cole has moved onward With the simplicity of truth, he proves to be the best track on the says, "It served a purpose,"

And as for the apartment on 3rd

Vought (continued from page 81)

Pratt & Whitney F100-PW-200 or the General Electric F110 engine and fitted with a new engine removal door and tail cone. With the new more, powerful engines, the aircraft has nearly doubled its thrust capabiliy nearly 26,000 lbs. In addition, acceleration has increased five fold.

The first level supersonic flight of an A-7 occured on Jan. 16 on test flight No. 7, when YA-7F No. 1 accelerated from .85 Mach to 1.04 Mach.

Ordnance

Like the A-7d, YA-7F can carry payloads of up to 17,300 lbs. of virtually any munition in the current Air

The aft section of the Corsair II has Force inventory. This is accommodated been reconfigured to accept either the On the aircraft's six wing- and two fuselage-mounted pytons.

The internal 20 mm gun with 1000 round ammunition capacity and two AJM-9 Sidewinder air-to-air missiles are retained. Testing

A 10 month flight test program was initiated that will be used to demonstrate the aircrafts enhanced capabilities. First flight occured on Nov. 29, 1989 at CTV facilities in Dallas, Texas and has since progressed to Edwards AFB, California. Aircraft No. 2 is scheduled to complete engine run and taxi tests and is to progress to first flight sometime in early April.



Why Become a P.E.?



"A professional engineering license is an asset in corpora-Hous like Dn Pont.

Deborah L. Grabbe, F.E. Manager/Engineering Department E.I. du Pour de Neumars & Company

More job opportunities. Promorability. Higher salaries. Professional Engineers enjoy many benefits of registration. To become a P.E., you first must pass the Fundamentals of Engineering (FE) examalso known as the EIT exam -administered every fall and spring Call the dean's office or your state registration board for testing dates and locations.

For exam information, writes National Council of Elements for Engineering and Surveying P.O. Box 1686

Chrimon, s.C. 29633-1686

#### (continued from page 1)

the United States. This second day also saw a another new attraction, that of a USAF front line F-16 performing dogfighting maneuvers. The previous days showings made second appearances this day also,

Pollowing the show, and early Monday morning. crowds of people lined the fence around DAB to witness the departures of the static displayed aircraft, and it proved to be almost better than the actual airshow.

Every departing F-16 made fly-bys at speeds only a few knots unde much and with full afterburner. Not to be outdone, the F-4 Phantoms made their departures with just

# 1990 ATA)

Patty is currently the top ranked female performer in as much spirit. At one point, an F-4 and an F-16 made high speed passes chasing each other around the airport. For a minute it seemed that they would break Mach. The most spectacular departure was made by the US Navy F-14 Tomcat, which came closest to breaking Mach speed than any other aircraft at the show, reaching speeds right on the threshold of the speed of sound, A little known fact is that three of the Thunderbirds who performed were Embry-Riddle graduates. Riddle graduates also flew in one of the static EA-6Bs, one of the Lendership Excellence Starts Here A-10s, and were members of the C-5 Galaxy crew, and the Air National Guard F-16 crew.

Avion has launch priority Delta

## **IMPROVE** COMMUNICATION THE THE THE

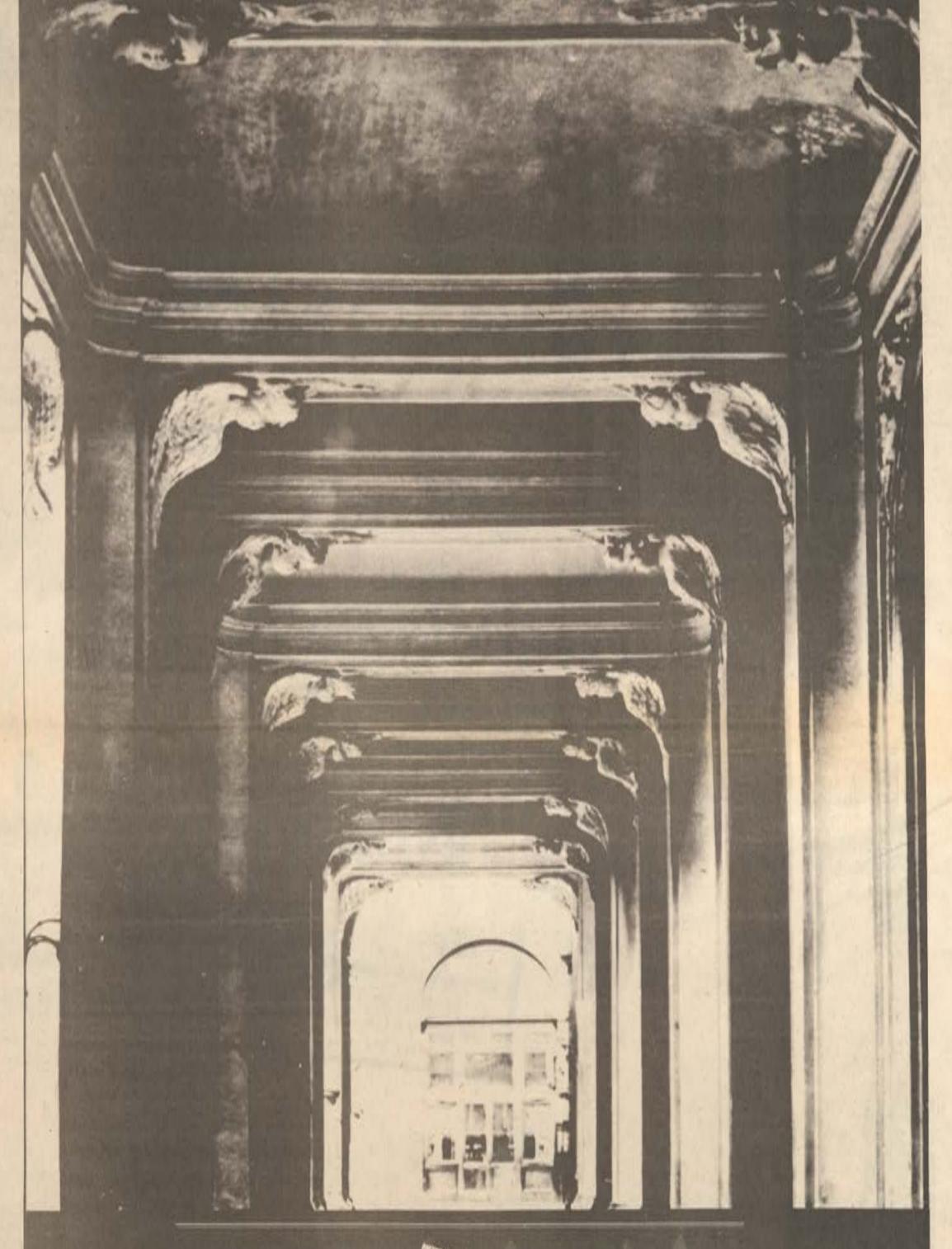


An ATET Card helps you communicate better, because you can use it to call from all kinds of places. Like a friend's, or a pay phone, or out on the road. You don't even need to have a phone in your name to get one. And every month you get an itemized bill stating where and

when you used the card. To apply for the ATET Card, call us at 1 800 525-7955, Ext. 630. Now, if only it were that easy to improve your grade point average.



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