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SPACE TECHNOLOGY

Second 747 SCA joins NASA fleet

by Joshua S. Mussat
 Space Technology Editor

After the *Challenger* accident, the single Shuttle Carrier Aircraft (SCA) was identified as the weak link in the shuttle program. If the aircraft were incapacitated it would mean the grounding of the shuttle fleet because it would leave no means to return an orbiter to the Kennedy Space Center. NASA announced plans to acquire a back-up SCA in February 1988.

NASA purchased the Boeing 747-SR aircraft from JAL Airlines, with whom it had logged 32,182 flying

hours. Boeing began work to modify the aircraft in the summer of 1989 under a \$55 million contract. The work included the installation of the bulkheads to strengthen the aircraft body; addition of skin reinforcement and modification of the 747's horizontal stabilizer to allow attachment

of two special tip fins each measuring 10 feet by 20 feet which give the

aircraft added directional stability when it is carrying the orbiter; installation of fittings on which to attach struts to hold the orbiter to the airplane's fuselage; the removal of interior equipment such as passenger seats, galleys, etc.

The new SCA is similar to the first SCA except that it has extra support elements that give it the capability to transport a shuttle or-

bitier with a maximum gross weight of 240,000 pounds, about 48,000 pounds more than the original SCA. The new aircraft has a useful life of about 265 ferry flights over a 15 year period.

The only external differences between the two SCAs are the tail numbers and the U.S. flag on the vertical rudder of aircraft number 911, its newest, and veteran aircraft number 905. Aircraft 905 will continue to be based at the Dryden Flight Research Facility in California, while aircraft 905 be based in El Paso, Texas.

NASA purchased the Boeing 747-SR aircraft from JAL Airlines...it had logged 32,182 flying hours.



In an emergency, dial 911...

The second shuttle carrier aircraft was put into service to ferry the shuttle from its landing in California back to the Kennedy Space Center.



All wet...
 Astronauts train in large neutral buoyancy tanks to simulate weightlessness in space. Tests are now being performed to evaluate spacesuits designs for the future.

Underwater tests to help spacesuit design

Ames Research Center, Ca (NASA News) - Scuba divers exercising on a unique underwater treadmill at NASA's Ames Research Center, Mountain View, California, may help scientists design better spacesuits for future astronauts working on the Moon or Mars.

"We hope to answer the basic questions of how human movement and energy consumption will differ in the reduced gravity on the Moon and Mars," said the study's Principal Investigator Dava J. Newman, a doctoral candidate in the aeronautical and astronautical engineering at the Massachusetts Institute of Technology.

Newman and Co-investigator Dr. Bruce Webber of Ames's Advanced Life Support Division also hope to learn at what speed humans change from walking to running and how much the joints move during various gaits. Another objective is to determine what kind of gait is most effective in different gravity fields and what energy expenditures are associated with those gaits.

Three men and three women, all certified scuba divers between 20 and 40 years old, are participating in the test conducted on a treadmill designed by Newman for Underwater use.

Each experiment run consists of six 30-minute sessions. The first session is a control experiment conducted outside Ames's Neutral Buoyancy Test Facility (NBT). The NBT is a water-filled cylindrical tank 9 feet deep and 11 feet in diameter.

We hope to answer the basic questions of how human movement will differ on the Moon and Mars...

Because water immersion is an effective technique to simulate reduced gravity, the remaining sessions take place inside the NBT. Five different gravity conditions, or "g's", are simulated: zero g, one-sixth g, three-eighths g, two-thirds g and 1 g (normal Earth gravity).

By varying the number and placement of ballast weights distributed in seven regions on the diver's body, Newman can change the diver's buoyancy and thus simulate various gravitational conditions. Each diver wears a commercial diving face mask. Air is provided through a supply hose from a sur-

face tank. Heart rate data and measurements of carbon dioxide exhaled and oxygen consumed by the diver indicate how hard the person is working under a specific workload and gravity field.

During each test session, Newman controls treadmill speed while the diver keeps pace with the treadmill belt. Each diver exercises at levels corresponding to 10 percent, 40 percent and 70 percent of the maximum work he or she is able to perform as measured by maximum oxygen consumption.

The treadmill is equipped with a platform that measures the force of each step, from which vertical speed and duration of each step can be calculated. The degree and amount of leg, arm and torso movements are recorded on video.

Newman believes such information may directly impact the design of advanced spacesuits and portable life support system. For example, designers need to know how much mobility astronauts' spacesuits should have to let them work most efficiently under various gravity forces.

Newman's tests also may lead to development of a training program to help astronauts simulate specific tasks and experience partial gravity prior to space flight.



Lift off...
 The Space Shuttle *Discovery* is rotated into a vertical position to be mated with the external tank and solid rocket boosters. *Discovery* is targeted to be rolled out to launch pad 39-A at 12:01 a.m. Friday.

Additional CRRES releases planned

by Joshua S. Mussat
 Space Technology Editor

NASA will continue a successful January series of space physics experiments with two chemical releases in February from the Combined Release and Radiation Effects Satellite (CRRES), a joint NASA-U.S. Air Force mission to study the Earth's magnetic fields and the effect of space radiation on spacecraft components.

Through the CRRES program's artificial cloud-release experiments, scientists seek to understand the processes which cause auroras by using charged particle clouds to induce them and to study the Earth's ionosphere and magnetosphere.

As with six chemical-release ex-

periments in January, the February releases may be visible from the entire continental United States and parts of Canada, Central America, the Caribbean, Western Europe and Western Africa. These releases will be the last conducted at high-enough altitudes for wide visibility.

...scientists seek to understand the processes which cause auroras ...

There will be five opportunities to make the two releases, one of barium and one of lithium, on the nights of

Feb. 9, 11, 13 and 16 and the morning of Feb. 19, with multiple release opportunities each evening. Releases can be seen in the sky generally 40 to 60 degrees east of the constellation Orion.

The CRRES program is a joint effort of NASA, through its Marshall Space Flight Center, Huntsville, Alabama, and the Department of Defense's Air Force Space Test and Transportation Program. The releases are commanded from a ground facility at Sunnyvale, California.

For more current information on the times of release opportunities, the CRRES Coordination Center "hot-line" message is available by calling (202) 544-5156.

NASA moves closer to launch

by Joshua S. Mussat
 Space Technology Editor

The road to the STS-39 Department of Defense (DOD) mission has been a long and difficult one. Since the Space Shuttle *Discovery* was rolled into the Orbiter Processing Facility (OPF) on October 18, 22 modifications have been implemented, including the installation of the five new general purpose computers. The new computers feature 2.5 times the memory capacity and up to three times the processing speed of the older units.

Required tests and inspections were performed on the orbiter's major sys-

tems while in the OPF. *Discovery's* three main engines, two orbital maneuvering system pods and the forward reaction control system were removed for testing or replaced.

A visible step toward launch took place last Saturday when *Discovery* was transferred to the vehicle assembly building atop the orbiter transporter.

While in the vehicle assembly building, *Discovery* will be connected to the external tank and solid rocket boosters, which are already bolted to the mobile launcher platform. The shuttle interface test is scheduled to be

conducted in the vehicle assembly building. This test will verify the mechanical and electrical connections between the assembled vehicle elements. *Discovery* was hard mated to the external tank at 8:57 p.m. on Sunday night.

The STS-39 vehicle stack is scheduled to be rolled to launch pad 39-A where flight preparations will continue through launch. The launch day dress rehearsal with the STS-39 launch team and flight crew, called the terminal countdown demonstration test, is tentatively planned for February 19-20.



Abandon ship...

Soviet cosmonauts aboard the *Salyut-7* space station in the mid 1980's enjoyed working aboard the second generation of Soviet spacecraft. Last Thursday, the space station plunged through the atmosphere back to Earth.

Salyut-7 space station plunges back to Earth in a "rain of fire"

Moscow (AP) - A Soviet space station the size of a railroad car plunged through the atmosphere in a "rain of fire" over Argentina on Thursday, ending a month of suspense over where it would land.

The long period of speculation had triggered panic in one Russian village, which shut down its businesses and schools for fear of falling debris.

The 40-ton *Salyut-7* space station re-entered the Earth's atmosphere early Thursday and "burned out of existence," the official news agency Tass said.

Pieces of the spacecraft fell on a sparsely populated area in the Andes mountains near the Chilean border, the Argentine government news agency Telam reported. It said *Salyut-7* "triggered a rain of fire."

Officials at the U.S. Space Command in Colorado Springs, Colo., confirmed the space station's entry into the Earth's atmosphere and that debris had fallen in the western Andes Mountains on Thursday.

Soviet media have closely followed the descent of the 9-year-old spacecraft the past month. The lack of precise information about the landing, combined with the Soviet obsession with UFOs and widespread superstition, caused a wave of anxiety in at least one Russian village.

The Argentine news agency said blazing pieces of the *Salyut-7* complex could be seen from several towns in the provinces of Cordoba, Buenos Aires, Mendoza, San Luis, Neuquen and Chubut.

By late afternoon, there were no reports of injuries. No fragments were reported recovered.

The space station was traveling at about 17,000 mph. Tass said that just before the spacecraft entered the atmosphere at 6:47 a.m. (10:47 p.m. Wednesday EST), ground controllers tried to direct it toward water, but there was not enough fuel to complete the maneuver.

Soviet diplomats were put into action to notify Latin American countries of the expected time and place of the fallout. Tass also said the United States and Soviet Union activated national Centers for the Decrease of Nuclear Danger to exchange information.

The superpowers set up the centers in 1987 to exchange information about ballistic missile launches, nuclear weapons tests and arms control treaties.

The space station was put into orbit in April 1982, the last one in the *Salyut* series, which is the second generation of Soviet spacecraft. It hosted 10 crews, two of them international.

Tass said the station should have stayed in orbit for several more years, "but solar activity suddenly increased in 1988, and the station began sharply to descend." Sunspots create solar winds, a stream of ionized hydrogen and helium that decays a spacecraft's orbit.

Krasnaya Zvezda, the Soviet military newspaper, reported last weekend that the biggest danger was from pieces of the Cosmos-1686 cargo spacecraft, which is docked to the space station.

Soviet officials said earlier that the space station, powered by solar energy and chemical batteries, did not contain any nuclear fuel or other dangerous substances.

CRRES release opportunities and viewing coordinates

Number	First*	Last	Orlando Florida Azimuth/Elevation Coordinates**
1	February 9 9:00 P.M.	February 10 1:00 A.M.	118/46 167/49
2	February 11 10:15 P.M.	February 12 2:15 A.M.	148/61 200/47
3	February 13 11:30 P.M.	February 14 3:30 A.M.	197/63 226/36
4	February 16 10:00 P.M.	February 17 12:30 A.M.	138/45 156/45
5	February 19 12:20 A.M.	February 19 1:40 A.M.	176/53 188/47

* Release opportunities occur approximately every 30 minutes after the first opportunity, with the exception of final opportunity for the fifth release. Exact times will be determined on the night of the release.

** Azimuth: 0 = North; 90 = East; 180 = South; 270 = West
 Elevation: 0 = Horizontal; 90 = Zenith

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America West Airlines is growing while other carriers fold

by Erinn Moore
Aeronautica Writer

With the recent loss of Eastern Airlines, many industry officials agree that Eastern may have been just the first of many airlines that will close down due to unprofitability. One carrier that seems to overcome those odds is America West Airlines.

According to its company profiles, America West Airlines, Inc., began operations on Aug. 1, 1983, with three Boeing 737 aircraft serving five cities. At Dec. 31, 1988, it had a fleet of seven Boeing 757s, 60 Boeing 737s and three de Havilland DHC-8s and served 45 cities throughout the continental United States and two cities in Canada, primarily through its hubs in Phoenix and Las Vegas. America West provides high-quality, low-fare air travel service designed to appeal to frequent business travelers as well as to discretionary

travelers. In management's opinion, the company has achieved a high degree of employee productivity through employee stock ownership, profit sharing and cross utilization of employees.

The company operates hubs out of Phoenix, Arizona, and Las Vegas. A hub is an airport at which a carrier schedules its flights to permit passengers from cities on one side of the hub

to make convenient connections with its flights to cities on the other side. The airline schedules a series of flights timed to arrive at the hub from one direction at approximately the same time and to depart toward the opposite direction a short time later. In 1986, the airline established Las Vegas as its second hub with the introduction of its "Nite Flites" service providing non stop round trip flights from seven cities to Las Vegas, it has since expanded its service to include 33 cities. The

flights arrive in Las Vegas in late evening with the return trip departing between 11:00 p.m. and 2:00 a.m. The service is provided at low, unrestricted fares with no advance purchase requirements. In 1987, daytime service through the Las Vegas hub was added and has resulted in over 90 daily departures.

America West focuses on service to and from California as an essential element in its hub systems. California is by far the dominant destination for Arizona travelers and is a major destination for travelers from other cities in the airline's service area. America West serves Los Angeles International Airport, Orange County, Ontario, Burbank, Long Beach and San Diego in southern California, and Oakland, Sacramento and San Jose in northern California. In 1987, America West began long haul service utilizing seven Boeing 757 aircraft.

The airline's Boeing 757 aircraft now serve Chicago's O'Hare Airport, New York's JFK International and the Baltimore/Washington International airports. America West also provides feeder services from Palm Springs, California, Grand Canyon, Flagstaff and Yuma, Arizona to its hubs in Phoenix and Las Vegas with de Havilland DHC-8 turboprop aircraft.

America West is one of four carriers which have applied to the United States Department of Transportation to provide additional service between the United States and Australia pursuant to the United States/Australia Air Transport Agreement.

America West provides services designed to appeal to frequent business travelers as well as to discretionary travelers. These services include assigned seating, participation in travel agent automated reservation systems, interline ticketing and baggage transfer, large overhead bins for carry-on luggage, complimentary copies of The Wall Street Journal and U.S.A. Today, complimentary alcoholic beverage service, and sandwiches and snacks on most

flights over one hour in duration. On its Boeing 757 aircraft, the airline provides meal service on long distance flights. Other services include first-class seating on long haul destinations, complimentary shuttle bus service from the Phoenix hub to the Scottsdale resort area and a drive through service at the Phoenix airport where passengers can be ticketed, check luggage and receive seat assignments without leaving their car.

America West Airlines provides services designed to appeal to frequent business travelers as well as to discretionary travelers.

At the Phoenix hub, the airline has opened an airport lounge which provides members with a number of convenient services, such as a library, private meeting rooms and reservation and flight information. The airline has also developed a frequent flyer program in conjunction with certain hotels, rental car agencies and selected international airlines.

see America, page B6

Ejection seats provide a ride for life

by Frances L. Cozza
Aeronautica Writer

The decision to eject from an aircraft is one that must be weighted on good timing, the parameters in which you can eject and how well you know yourself, your airplane and your seat.

For military tactical pilots, ejecting is always prepared for but is something that is hopefully never used.

One of the basic problems that occur during flight is for the pilot to realize how little time he has to make the decision.

From taxiing to rotation there is practically no time to think and then react but once the plane has climbed and is in a straight and level flight, a pilot has a chance to think of his options if an emergency should arise.

Let's first look at what a 0/0 seat is and some of the guidelines needed to eject with a high percentage of survival.

The reason it is called a 0/0 seat is basically because the first 0 represents 0 altitude and the second 0 represents 0 airspeed, allowing the pilot to eject from ground level with no forward acceleration.

The pitch, roll and sink rate must

fall within required degrees and altitude in order to have a successful ejection. Certain aircraft are more sensitive to pitch and a plane can fall into danger once it reaches a 0 speed environment, adding a sink component, allowing not enough altitude to eject safely.

Roll has a less sensitive reaction in zero sink conditions (dive angle) and at zero speed. Forward speed in some cases improves performance.

To fall within the envelope at ejection, the optimum amount of airspeed you can safely eject from is 600 knots, however there is still an appreciable amount of force on the body still making ejection hazardous.

Above 600 knots, (outside the envelope), there is an excessive amount of force and it is extremely hazardous in ejecting. The pilot has to be well aware mentally of the adverse flight conditions.

Another factor the pilot has to be concerned with is his weight, since the center of gravity of a seat/man com-

bination can effect seat performance and parachute deployment.

Finally, we can look at what exactly happens once the decision is made to eject and its procedure for an automatic seat/man separation from a Martin-Baker seat used in the F-18.

A. After pulling the ejection handle, the IFF (transponder) is actuated, the inertia reel tightens the seat straps and the leg restraints. The canopy is jettisoned by two rocket motors and a catapult fires propelling the seat up a guide rail. Emergency oxygen is actuated and the time release mechanism and drogue gun are tripped. The rocket pack fires near the end of the catapult stroke propelling the seat about 200 feet upwards.

B. Drogue gun fires. Controller drogue and stabilize drogue are deployed to stabilize and decelerate seat.

C. High Altitude Sequence
C. When between 14,500 MSL and 11,500 feet MSL is reached, the barostat controlled mechanism actuates to

release the occupants harness and leg restraint lines.

The scissor shackle is released and the drogue chutes pull the link line to deploy the main parachute.

D. The opening shock of the parachute separates the occupant from the seat allowing normal descent.

Low Altitude Sequence

C. Same as High Altitude except, the time release mechanism actuates approximately 1.5 seconds after ejecting if below 7,500 feet MSL or after less than 3 G's on seat if above 7,500 feet MSL.

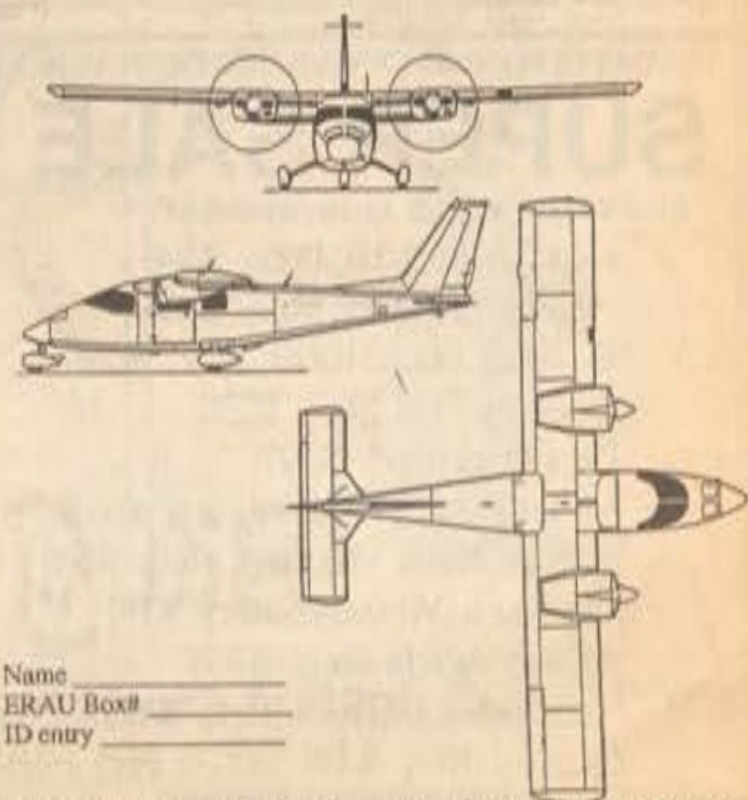
The best guidelines are: for a pilot to know his seat performance inside and out in extreme low altitude, out of control conditions—don't hesitate and eject while you're still in the parameters

When in control, keep wings level to convert excess airspeed, then eject. Also, use the seat as "advertised"

In conclusion, the survival rate should increase once pilots know how to use their 0/0 seat. Though a pilot makes the decision to take the "journey", I'm sure no matter what denomination he's apart of, even if none; a prayer can't hurt.

For military tactical pilots, ejecting is always prepared for but is something that is hopefully never used.

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Calvin and Hobbes

by Bill Waterson

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I GUESS TIME WEIGHS MORE HEAVILY ON SOME PEOPLE'S HANDS THAN OTHERS.

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I'LL SHOVEL AND PACK THE SNOW INTO A BIG RAMP! YOU CAN GET IN THE CAR, RIN UP TO NEAR RED LINE, THROW OUT THE CLUTCH, LEAVE A PATCH OF MOLTEN RUBBER OUT THE GARAGE, AND ZOOM UP THE RAMP!

THEN WE COULD LINE BARRELS AND STUFF DOWN THE DRIVEWAY AND SEE HOW MANY YOU COULD CLEAR! WOULDN'T THAT BE GREAT?

I DON'T SEE WHY SOME PEOPLE EVEN HAVE CARS.

NIGHHH! A SNOW SNAKE'S GOT ME!

HORRIBLE INNER TEETH ON ITS SEPARATELY MOVING UPPER JAW BONES ARE PULLING ME DOWN ITS FRIGID GULLET! RUN FOR YOUR LIFE!

AT LEAST I HAVE A LIFE...UNLIKE SOME WEIRDOS I KNOW.

I SUPPOSE IF I HAD TWO X CHROMOSOMES, I'D FEEL HOSTILE TOO.

TOO STRICT! HOME NO! CALVIN'S DAD UNFAIR! LATER BEATTIME FEWER BATHS! Equal! Big Dad!

NO ONE ELSE AT THE OFFICE TALKS ABOUT THIS KIND OF THING.

I LIKE SLEDDING DOWN HILLS, BUT I HATE HAVING TO CLIMB BACK UP!

IT'S TOO MUCH WORK! IT'S BORING! IT'S SLOW!

I KNOW! I'LL SIT ON THE SLED AND YOU PULL ME UP, OK? RUN AS FAST AS YOU CAN, AND ZIG ZAG AROUND TREES AND STUFF!

EVEN MY FRIENDS DON'T DO WHAT I WANT.

CALVIN'S BEEN OUTSIDE BUILDING SOMETHING SINCE EARLY THIS MORNING.

I CAN'T TELL WHAT IT IS. CAN YOU?

IT DOESN'T LOOK LIKE ANYTHING FROM HERE.

Far Side

by Gary Larson

My gosh! Look at that guy!

I think I'm going to sick!

Mrs. Gaffney is a Cartilage beer

"Oh, my! Cindy! This looks exquisite! ... And look, Frank — it even has a cheeseball stuffed in its mouth!"

"Hey, hey, hey! Are you folks nuts? I'm telling you, this is the car for you!"

Frank: Wuh?

Frank: Wuh?

Frank: Wuh?

Frank: Wuh?

You never see it coming

Cattle drive quartets

Gus! What the hell you doin'? This is "Eine Kleine Nachtmusik," third movement, *mitzweits allegretto*, you brainless-horned toad!

Jim! You, too? Bummer!

Mister Boffo

by Joe Martin

ANOTHER WAY TO TELL WHEN YOU'RE DEALING WITH SOMEONE WHO DOESN'T KNOW WHEN IT'S OK FOR THEM TO HIT YOU

INTERNAL-REVENUE SERVICE

I HAVE A VERBAL RECEIPT FOR THAT!

EARTH IN THE AFTERMATH OF A WILLY COOTE BOMB

ANGEL REEBLING IN A PLOTZBERG!

Mother Goose and Grimm

by Mike Peters

GEE... AS LONG AS I CAN KEEP ACTING LIKE A CAT...

I'LL NEVER HAVE TO DO ANOTHER STUPID DOOGIE TRICK.

MEOW MEOW MEOW PURRRR PURRRR PURRRR PURRRR

MEOW MEOW MEOW HEH HEH HEH...

HOW MUCH IS THAT DOOGIE IN THE WINDOW?

THOR, SPIKE... IT'S ME, GRIMMY. I'M A DOG, Y'KNOW? I WAS JUST MAKING THOSE "MEOW" SOUNDS TO GET OUT OF WORK, THAT'S ALL.

YOU BELIEVE ME, DON'T YOU, THOR? HUH? YOU BELIEVE ME? HUH?

I TAUGHT I SAW A PUDDY TAT.

ARE YOU SURE THIS IS HOW TO CATCH A MOUSE?

HEY, WOULD A CAT LIE TO A DOG? NOW HOLD THIS SACK AND DO AS I SAY.

KEEP FELLING FOR MICE WHILE I CHASE THEM IN THE YARD, THEN YOU GRAB THEM WITH THE SACK.

GEE, THANKS, ATTILA. YOU'RE A REAL PAL.

HERE, MOUSEY, MOUSEY, MOUSEY, HEEERE, MOUSEY, MOUSEY, MOUSEY, MOUSEY.

WHAT DID HE MEAN "WOULD A CAT LIE TO A DOG?"

America

(continued from page B3)
The airline believes that it is the only airline in its service area offering this combination of services together with the availability of low fares for all seats on all its flights.

The airline's newest division, AmeriWest Vacations, began operations in December 1987. AmeriWest Vacations arranges vacation packages which include hotel accommodations, air fare and ground transportation at competitive prices. The division's initial marketing focus is on Reno and Las Vegas, Nevada.

America West has 8,142 full-time and part-time employees on its payroll, the equivalent of 7,507 full-time employees. During 1988, the airline had 143,900 available seat miles per full-time equivalent employee and \$4,000 revenue passenger miles per full-time equivalent employee, calculated on a monthly average basis. The most favorable employee productivity results have been accomplished primarily through the cross-utilization of the Airline's personnel. For ex-

Letters

(continued from A2)
leads to course stability which insures quality education. Is that not the purpose of our University? how can this relocation of our department benefit the University? There is absolutely no monetary gain to be achieved. Is growth not beneficial to the University? Why dissolve the department? It does nothing but harm our education. To

ample, America West requires each of its full-time Customer Service Representatives to work the equivalent of a regular 40 hour, five day week. Such an individual might work as a flight attendant three days and in reservations two days in a typical week. The following week that same individual might work two days as a flight attendant and three days in various customer contact and ground positions at the airport, including baggage handling. Pilots put in approximately 80 hours of flight time every month. Maintenance and technical personnel are not cross utilized.

America West believes that cross utilization and the related training in aspects of the company's business not involved with an individual's primary assignment increase the understanding and involvement of each employee in the airline's performance.

All and all, America West is a very good carrier to be employed with if you are interested in working for a major airline other than the regulars (American, Continental, Northwest, United, Delta, and UsAir).

confirm to doing things by convention leads to mediocrity. We are not going to settle for mediocrity! A petition is being circulated throughout the ACET student body, and we will need the added support of all the other students. Please aid us with your support in fighting this change.

Charles Marsh
Box 7193

Simuflite scholarship offered

The Simuflite Corporation at Dallas, Texas has provided two scholarships per year to Embry-Riddle Aeronautical University students. This scholarship is composed of approximately \$8,000 in training in either the Citation or the King Air Phase II simulators and \$1,000 for expenses. To be eligible for this scholarship, the following criteria must be met:

- 1) Complete all degree flight requirements at ERAU.
- 2) Currently enrolled as a full time student at ERAU.
- 3) Have minimum cumulative GPA of 2.8 with a minimum GPA of 3.0 in Flight and in Aeronautical Science course work.
- 4) Possess Commercial Instrument and Multi-Engine ratings, 5) Recommendations from previous flight instructor and the appropriate flight training manager.
- 6) Two letters of recommendation from Aeronautical Science faculty.

Candidate must have had each of the faculty members for at least one upper level course.

Students can pick up applications in the Aeronautical Science Office, room 123, in the new AWS building. The application data is also due into the same office by the end of the day on Thursday, Feb. 14, 1991.

Spring degree applications available

Applications are being accepted for those expecting April 1991 degree completion. Come to the Registration and Records Office to complete an application to receive an evaluation.

For those students anticipating summer 1991 graduation, the Records and Registration Office suggests that you fill out your Degree Completion Application for a preliminary evaluation for degree completion. It is especially important for those summer applicants anticipating attendance at the Spring 1991 ceremony to apply at this time.

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

**Happy Valentines Day!
From the Avion staff**

The Weekly
Crossword
Puzzle

ACROSS

- 1 A state abbr.
- 4 Myself
- 6 Inclines
- 11 Shaded
- 12 Deputies
- 15 Babylonian deity
- 16 Motors
- 18 Sun god
- 19 To come to
- 21 Depression
- 22 Cauldron
- 23 Cauder appendage
- 24 Singer
- 26 Search for
- 28 Watering place
- 29 Checks
- 31 Emerald lake
- 33 Revised abbr.
- 34 Tiny particle
- 36 Walk

DOWN

- 1 Devoured
- 2 Answerable
- 3 Article
- 4 Repair
- 5 Brims
- 6 Gallops easily

7 Mature
8 Bird's home
9 Symbol for thoron
10 Band of color
12 Symbol for tellurium
14 Dinner course
17 Arrow joint
20 Lamb's pen name
23 Equal degree
24 Teutonic deity
25 Emmets
27 Outfit
30 Soaks up
32 Want
35 Substances
37 Fruit
38 Lance
39 Batted against
41 Below
43 Comely
44 Compass point
46 Agave plant
48 Animated
51 Former Russian ruler
53 Verve
57 Metal
58 Halt an arm
60 Organ of sight
62 Ma's partner
64 Sign on door

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Autos for sale

1987 VW Wolfsburg Edition Sirococo-Black & White interior, Mag wheels and custom floor mats. 67,900 miles excellent shape, must see. Call Peggy at 677-9402.

1989 Dynamic '88, Oldsmobile-Perfect Beach cruiser-drop top with car cover, 4 door, runs great. Style, comfort and luxury at a price you can afford-\$450. Call Al at 252-9732.

Cycles for sale

1982 Yamaha-550 Maxim. Runs well, very reliable transportation. Includes owners manual, cylinder repair manual and one piece helmet. \$900 OBO. Call 756-6789, leave a message if no one is home.

Misc. for sale

For Sale-Sears, Roebuck, Men's 12-speed bicycle. Excellent condition-\$50. Call 756-6789, leave a message if no one is home.

Paint-Ball Gun For Sale-Phill long barrel, direct feed with 7oz constant air make your first shot count! Only \$160.00 Call Paul at 253-5061

DAVID CLARK HEADSET-1110-80 Good Shape. \$125 Kuit 258-9120

AR OWNERS-Members of newly founded Car Care Club USA will paint your car for free if you help us expand. GREAT BENEFITS. Send SASII to GT Distributors, P.O. Box 4056, South Daytona, FL 32121

ATTENTION BEER DRINKERS-CO2 system for sale. Includes tank, regulator, and up. All you need is an old refrigerator and you're ready to drink some cold ones. \$75 Call Emie 238-0120

For Sale-Ammo 7.62x39 mm \$20/100, 5.56mm (223) \$20/100. Call Mike at 760-2614.

LOST-Infielder's mitt behind library on Saturday. \$10 reward. Respond to Box D-228.

Miscellaneous

Paint-Ball! Have a gun and equipment but they're dusty with disuse? Use 'em on us! We play every other weekend! Call Paul at 253-5061 for more info.

Custom Racket Stringing-\$10 for a guaranteed string job. Down 2 Room 202. Call 238-4074 and ask for Sonny.

TRAVEL POSITIONS AVAILABLE-Human female needed for grand alien tour of the galaxy. Must have schedule clear for next 10,000 years and must be open-minded and very flexible, green hair a plus.

Personals

NEW ENGLANDER, Our conversation record is nearing the limit. We hit three minutes this week. Let's try to go for the gusto and maybe we see can even see each other too. Have fun down south! WORLD TRAVELER

To: "The I am not the kind of dog," in Maryland! Happy Valentine's Day! I miss you Chissy. Can't wait to raise hell this summer. It's just not the same in Maine without you. Come home! LOVE LISA!!

DEAR YAK, Thank you for the waxed lips. And the idol. GUYDRUSH

Wanted-If you are friendly, pretty, not too over weight female and are interested in going out with a nice-looking thoughtful male, contact me...I am more than interested. Box 5329

EMBRY RIDDLE SAILING TEAM
Good luck at Ekened.

Beware people with wandering eyes. You may see more than you want.

Positions Available in YUPPIE Manufacturing Plant. Must know all three regulation haircuts.

QUESTION: What do you call a mad lawyer under 25?
ANSWER: A PYUPPIE...A pissed young urban professional.

DANNY,
Let's do it! Seven more weeks and we will have them dropping dead! I hope you have a wonderful Valentine's Day and remember that surprises are always the best!
YOU KNOW WHO!

Poland finally sent troops to the gulf...Mexico doesn't know what to do with them.

LILA
Sorry I couldn't get your number. So Happy Heart Day, and you were not forgotten. Garfield has a message for you too. Stop by and pick it up.
YOU KNOW WHO

TO THE WHOLE GANG AT SHANGHAI-LA
True friends are like diamonds found very rare. False friends are like autumn leaves fallen everywhere.
TRICIA

HERMAN
Happy V-Day (and 11 + 1/2 months).
MARTHA

SUZIE
Happy Valentine's Day!!!! Thinking of you.
SNUGGLES

TO THE GUY WHO STOLE OUR PEN
We saw you, and we think you're cute. Drop a note next time with your name and number and we will get back to you ASAP.
DORM CHICKS
p.s. PLEASE BE OUR VALENTINE?

To: The girl who is living it up at Colgate. Happy Valentine's Day!! I hope you are recovering from our silly conversation. Have a blast in Barbados. I'll see you in May.
LOVE, LISA

FLUFFY II
Hey! What can I say? You're the greatest. Happy Valentine's Day.
BLACKJACK

AIR FORCE ROTC
I'm holding these sacred drill bricks ransom, if you ever want to see them in one piece you better respond.
THE CIVILIAN

Happy Valentine's Day McNugget!!
LOVE KERRY!!

Happy Valentine's Day Miss Jeanne!! I miss you. Hope you're having fun at Orono.

THANK YOU!! IT WORKED!!!
I earned \$162.00 in four days doing GT Distributor's EARN \$5000 MONTHLY Program. Thank you whoever you guys are.
HAPPY BILL.

SWF...at Riddle, right!!!!
Poland recently ordered 200,000 septic tanks from an American company...and as soon they can find the drivers they are going to attack Russia.

SRI
A guy who always pops up at the perfect time, and who can always put a smile on my face. You're the greatest! Happy Valentine's Day.
TRICIA

TO MY PRINCESS
I Love you and need you very much. Happy Valentine's Day.
ALL MY LOVE YOUR PRINCE

PDA
Tom, Tony, Toni has done it again, who's next? So it feels good huh?
THE 3 AMIGOS

TO THE BASKETBALL PLAYERS, COACHES, AND MEMBERS OF THE TEAM (EVEN "GOOSE"):
You are the best of the best. Awesome Job! Happy Valentine's Day!!!
YOUR CHEERLEADERS

BOOBOO CAKES,
Happy Valentine's Day: "Big Smooch"!

PATTY
HAPPY 21st Anniversary!! How about dinner at Fonda's
LOVE GARY

AMY
Happy Valentine's Day!!!! The time we will spend together will be worth remembering.
YOUR LITTLE BIARKAT

STUART
So anyway, the guy from the carnival said, "Keep your arms and head in the mixer at all times." But no...Max had to stick his head and arms out, yelling, "Hey everyone, look at me!" He got decapitated, and his head ended up over by the snow cone concession!
MR. THE MARINE

IRAS
Does Roland float?
A MEMBER

ACET-91
We made it through the first wave of test's-so let's do it again.

TO LONELY STEVE WITH THOSE TERRIBLE SCARS
Smile and think Jai All. Head and buy ear plugs. Happy Valentine's Day.
226

TO: KERRY
Happy Valentine's Day!
FROM THE GIRL WHO ALWAYS WALKS HOME! (HAI HAI)

A RIDDLE
What's wet and done sitting or standing?

ANSWER
Windsurfing and Sailing. Check out the best club on campus!

ACET-91
Let's Do It!!
D.V.

CONVENTION GOIBKS
Have fun in LA, and watch out for the sand sharks on the beaches. They're mutants from the planet mars.
FORMER EIC

TO THE GIRL UPSTAIRS IN THE SC
Look out someone has their eye on you.
MORE LATER

H.E.G.
When is our wings Bar-BQ. Everyone else has had one.
UPSTAIRS

KISS!
Happy V-Day!
WITH FIBLING

FSW
I didn't know you cared so much and I'm sorry I hurt you. I hope we can get things back were they were soon. The fast lane isn't my style.
PRODUCTION PERSON

SPECIAL K:

always.
Happy Valentine's Day!

HARRY,
All roses die and love fades away. My recommendation: dump the chick and invest in tax-exempt CD's.

TO RED'S BOYFRIEND
I'm not interested in her. I just wanted to get to know her better. So chill.
H&S INC.

TONY
Hey
THE ENTIRE WORLD

SMILE WORLD
It maybe the last thing you ever do!!!
THE MAD HATTER

HEY BROWN EYES
You sure you want it painted?
BLUE EYES

Does anyone know where I can find an Iraqi flag? I want to start a fire.
MAD MAX

PRD
Thank for being there when I needed someone to talk to. Your very special to me now and always.
THE MAD TYPIST

DEAR SANDY,
Will you be our Valentine?
DV + RD

ADW
jag slkkr dig
MAITIAS

WOODY
It's Valentine's Day-The perfect time to send his wish to you of warmth and love that are always your's each day and the whole year through.
MESS MA112

CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- ➔ All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- ➔ Commercial advertising is available through the Avion advertising department.
- ➔ Classified advertising is carried out by filling out a classified ad card in the Avion office.
- ➔ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- ➔ Only paid ads will run for two issues and may be renewed by filling out another classified ad card.
- ➔ No classified ads will be accepted over the phone.
- ➔ For more information, stop by or call the Avion office at (904) 239-6049.

ARNOLD 28
What a pig!!! The best big brother one could have. Best of luck with PTP and ER Happy Valentine's Day.
BLACKJACK

MELISSA
Hey mom! I need your signature. Hardy ha-ha. Happy Valentine's Day
BLACKJACK

STEVE
You missed up a koolid friendship. Oh well your lost. Happy Valentine's Day anyway.
BLACKJACK

GREGG
Don't be a Steve. h-h-h Happy Valentine's Day.
W

ARNOLD 28
I'm so glad we met. I never dreamed it would be you and I. I'm happy. Happy Valentine's Day.
YOUR BABY

FLUFFY II
Your love, kindness, and thoughtfulness is more than I can ever ask for in a friend. Thank you for being there. Happy Valentine's Day.
FLUFFY "II"

CHRIS
Don't give up. You'll make it to the USAFA. Happy Valentine's Day and good luck.
MOTORCYCLES

Happy Valentine's Day to my FAVORITE PILOT in Prescott Arizona. The sun doesn't shine the same here! I miss you like crazy.

KELLI
Bexcellent
DAVID

GREG N.
Get well soon, we miss you!
DELTA CH

TO YOU CRAZY BODIE NERDS
We can't help but notice your lame ads in the Avion week after week. You have been currently chosen as "CREEKS OF THE WEEK" by our Potoc. Please withdraw your weekly ads to spare yourselves from further embarrassment.
T.P.C.

MON PETIT MONSTRE
Now that you're a CPIL. Can I be your first student??
JE T'AI ME!!

TO: THE MOOSE OWNER
The Moose is loose. Thanks for coming down. You can surprise me like this anytime.
LOVE YOUR MOOSE!

TO MY SQUEEZE!
I got you babe, I got you babe.
LOVE ALWAYS BUBBLE

ALINOR
You're rooming with Bob.

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Free Food & Drinks 7:00 to 9:30 PM

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Daytona's Best Bar-B-Que Free Food & Drinks 7:00 to 9:30 PM

Wet-T-Shirt Contest Friday, Saturday & Sunday

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