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## Avion 1988-05-18

Embry-Riddle Aeronautical University

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# CMU

An Award-Winning Student Newspaper

## Setbacks lead to slip in Discovery's launch

By Chip Zadow

Space Technology Editor

The National Aeronautics and Space Administration (NASA) is nearing its return to the manned space program with the arriving launch of the Space Shuttle *Discovery*. The target date for the launch is set at this time to be no earlier than Aug. 22, but very near that date.

Over the past few weeks, the shuttle program has encountered both setbacks, which led to the adjustment in the launch date, and improvements. The major event was the explosion at the shuttle fuel processing facility in Utah. Only one person was killed in the blast that rocked the entire city. Overall, the disaster will not effect the program to any great extent, but it did hurt the Space Shuttle program's vulnerable image.

Also in the news was the test of the troublesome solid rocket boosters in Utah. Morton Thiokol states that the test at this time appear to show that

the redesigned boosters will be nominal for a launch in the near future.

But there is a "minor" problem with the booster's insulation bond becoming separated. The seal is in between the booster segments and assists in keeping the segments together and free from burnthrough. Much more of the data from the latest test must be analyzed before the booster is given the final passing grade.

In the case of the nozzle boot ring disruption and failure in the booster test held in the early part of this year, there have been no positive explanations to the separation and failure. This anomaly is another contributing factor to the setback in the launch date, although the type of nozzle boot ring that failed in the test will not be used in the launch of *Discovery*.

The newly designed crew escape system was also recently checked. The telescoping bailout pole will be used. It consists of a nine-foot pole for crew

bailout under controlled conditions at or below 20,000 feet. This is chosen as a safer alternative to the tractor rockets for the emergency escape.

As of this printing, the roll out of *Discovery* to the launch pad will occur on June 15, the flight readiness firing of the orbiter's main engines will take place on July 10, and the payload will be moved to the launch pad on July 11. NASA spokesman George Diller mentions that these dates are expected to change, but not by more than a few days.

The primary payload for the upcoming shuttle launch, STS-51-L, will consist of the Tracking and Data Relay Satellite (TDRS). The space program will benefit from the satellite by its capability to expand the region of space that will be covered by its relay of voice, communication, and data. The satellite is set for early Monday morning, and is presently undergoing final testing.

See next weeks Space Technology in the Avion for an exclusive report.

## Professor Wang retires after 23 years with ERAU

by Phyllis A. Salmons

Associate Professor of Physics

One of Embury Riddle's most loved and respected professors, Ming Heisen (Ken) Wang, will retire this summer after 23 years of teaching in the Aeronautical Engineering Department. Professor Wang is one of the most fondly remembered faculty members of the department.

One of his former students, Rick Hebert, class of '86 says: "He has become somewhat of a legend among the engineering students, and the rest of Embury Riddle. He once told us during a lecture that in China if a student learns from an instructor, then the student always holds great respect for that instructor. I respect him both as a fine instructor and a wonderful person." One of his colleagues of the Engineering Department said: "When a former engineering student comes back to visit, the first person he or she looks up is Ken Wang."

Ming Heisen Wang was born in Laho, in China's Kiangsu Province. During the Sino-Japanese war in the 1930's, he was forced to leave his

family and flee to the western part of China. After graduating from high school in 1938, Wang entered the Chinese National North-Western College of Engineering and received a Bachelor of Science in Aeronautical Engineering in 1942. He received his Diploma from the Nationalist Chinese Air Force Technical School (advanced class) in 1944 and served in the Chinese Air Force for 18 years.

When World War II was over, he went to Nanking to work in the Wing and Passage Assembly Department of the Chinese National Air Force First Aircraft Manufacturing Plant and worked in the Design and Modification Department of the Chinese National Third Aircraft Manufacturing Plant and as the Head of the Aircraft Maintenance Division at the Headquarters of the Chinese Air Force. He taught at the Chinese Air Force Technical School in the areas of aerodynamics, engine dynamics and thermodynamics.

He met and married his wife in 1949, a few months before the Chinese Communists took over the

government. As an employee of the National Air Force, Wang's position on mainland China was none too secure. When the order came to move to Formosa (also known as Taiwan) in 1950, the Wangs left mainland China, even though it meant leaving behind family, friends, and all their possessions. "Silver dollars we threw on the runway," Wang recalled. "To get as many (people) on the planes as possible, we had to throw everything away, including silver dollars. If you wanted money, you stayed on the runway - if you wanted life, you left on the plane."

Wang first came to the United States in 1953, when he was sent to attend the U.S. Ordnance School in Aberdeen, Md. for several months. Upon his return to Taiwan, he was an instructor at the Taiwan Provincial Institute of Technology in Matera-chieva. He also continued to serve in the Chinese Air Force until 1962.

After his honorable discharge as lieutenant colonel in 1960, Wang accepted a position at ERAU. See WANG page 6



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## Fire destroys local landmark church, nearly pastor also

By Phyllis A. Salmons  
News Editor

A devastating fire destroyed a church and bookstore at the corner of Volusia and Palmetto avenues Saturday night.

28 fire fighters from all six Daytona Beach fire stations responded to the largest blaze here in nearly ten years.

According to Assistant Fire Chief George Sewell, the call came at 8:46 P.M. Six trucks, including an aerial unit, responded to the alarm. Fire fighters from Holly Hill, Ormond Beach and South Daytona had to staff the six Daytona Beach stations to maintain response readiness.

Police blocked traffic on Volusia and Palmetto for several hours to

protect the public and allow fire fighters space to contain the blaze.

There were no injuries in the blaze, however, the churches pastor, Eugene Mobley, was initially found to have been trapped inside. Officials located Mobley a short time later.

The Christ the King Ministries church, 201 W Volusia, was one of Daytona's oldest churches. The Christian Book North, an independent business in the structure, was also destroyed in the blaze.

Fire fighters were successful in their efforts to keep the blaze from spreading to nearby wood buildings.



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By Chip Zadow

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Most people ask, "why jump out of a perfectly good working airplane?" The Golden Knights will tell you that because it is the ultimate rush, or it's not a job, it's an adventure.

The U.S. Army Parachute Team, the Golden Knights, jump out of airplanes for crowds throughout the entire world. Since their organization in 1959, they have performed up to 280 days a year in front of millions of air-show goers.

Spectators at this years past Skyfest were all given a taste of skydiving. Presently, the team has ten jumpers per show. Sunday's, show gave the crowd a sight of Sgt. Chuck Roberts making a "flag jump," Sgt. Jake Brown and Sgt. Nick Nichols making a "bison pass." Sgt. Ken Elshing performing a "cutaway," Sgt. Ed Rivera, Sgt. Mark French, Sfc. Ben Curtis, Sfc. Gary Mohler, Sgt. Bill Goodwin,

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## Student Employment is beneficial for students

By Richard F. Beaumont  
Student Employment

Right now more than six hundred on-campus jobs are held by students. This program offers students the opportunity to gain work experience and valuable exposure to the campus.

The program's office is located in the south-west corner of the first floor of Spruance Hall. It has a list of on-campus jobs in the office and a bulletin board outside the office.

Having's Resident Advisors, and one or two other departments. A wide-point average of 2.0 or higher is required to work on-campus. Some sections may need special availability or basic abilities to work.

When I worked for Housing, Ven-

tween 7 a.m. and 11 p.m., while physics lab instructors are mainly engineering majors. Many other on-campus jobs exist varying from test grading and secretarial duties in Spruance Hall and the Academic Complex to landscaping and lawn

hourly rate of \$3.75 per hour. The job benefits system much like the one used by many corporations and business offices today. I learned how to repair small problems in a single-unit air-conditioner, and how to trouble-shoot layer in menus like the one in Doorn 1 as a result of my on-campus job.

The opportunity of securing an on or off-campus job is readily available to anyone who takes the time to visit the program office in Spruance Hall. The best time to apply is in the beginning of a semester before the best jobs are taken.

On-campus work can be fun, beneficial and convenient, and is a good idea for anyone who can't be a few extra dollars to survive each semester.

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By Martin F. Smith  
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and Sgt. John Steele all making group jumps.

To make a safe and proper jump, the jumper must begin the process on the ground. All the gear must be checked and assessed that it will perform flawlessly, because at 12,000 feet, a skydiver does not need his/her equipment to malfunction.

The pilot, co-pilot, crew, and jumpers then climb on board the Fokker Friendship 27 and prepare to fly into the wild blue yonder. As the plane climbs up to 12,000 feet, one of the doors is left open for the jumpers to spot where the airport exactly is. Approximately 1,500 feet up, a streamer is dropped to test the direction and speed of the winds. From this rough, but consistently correct data, the jumpers direct the pilot to the left or right to line the plane up with the wind and the drop-zone.

As the plane climbs, the tempera-  
See KNIGHTS page 4

## Student Employment is beneficial for students

By Richard F Beaumont  
Student Employment

For the past few years, Embry-Riddle has offered a program for its students that saves the university money, allows the students to get some of their tuition back and offers valuable experience and training.

It is the Student Employment program.

Right now more than six hundred on-campus jobs are held by students. This program also helps students find a large variety of off-campus jobs offered by local businesses that are called into the office.

The program's office is located in the south-west corner of the first floor of Spruance Hall. It has a list of on-campus jobs in the office, and a bulletin board outside the office for off-campus opportunities.

The office handles most of the on-campus student employment, with the exception of Epicure Food service,

Housing's Resident Advisers, and one or two other departments. A grade-point average of 2.0 or higher is required to work on-campus. Some sections may need special availability or basic abilities to work.

When I worked for Heating, Ven-

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hourly rate of \$3.75 per hour. The job training and experience itself can be a great benefit later in life.

Computer lab assistants learn to operate a network system much like the one used by many corporations and business offices today. I learned how to repair small problems in a single-unit air-conditioner, and how to trouble-shoot larger systems like the one in Dorm 1 as a result of my on-campus job.

The opportunity of securing an on or off-campus job is readily available to anyone who takes the time to visit the program office in Spruance Hall. The best time to apply is at the beginning of a semester before the best jobs are taken.

On-campus work can be fun, beneficial and convenient, and is a good idea for anyone who just needs a few extra dollars to survive each semester.

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tilation, and Air-Conditioning (HVAC), they needed me at any time between 9 a.m. and 5 p.m., Monday through Friday. They also asked if I was able to lift 100 pounds and had a valid driver's license.

The computer lab employs computer majors who work anywhere be-

cause of the Physical Plant.

On-campus employment has benefits worth looking into. Right now most departments begin at minimum wage, but some will start at a higher rate in tougher jobs like grounds keeping. As of May 1, 1988, all on-campus jobs start at a minimum

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Skyfest '88 was quite spectacular. With such performances as the Golden Knights, the Ray Ban Gold, and the Thunderbirds, how could it be anything less? And perhaps the most remarkable event was the rare public appearance of the B1 bomber.

Still, the coordination between the University and the Skyfest committee left much to be desired. The timing was only slightly better than last year's Skyfest. At least this year the bulk of the University population was still in Daytona to participate by that was the only positive aspect of the timing of this year's Skyfest.

First of all, Skyfest was held during finals weekend. The University rescheduled the Saturday afternoon finals to Friday so that Riddle students would be able to enjoy the airshow. However, in rescheduling two details were overlooked. The first is that the University eliminated the study day.

Study day has always provided a bit of a buffer between the last class and the final so that students would have a chance to study without being forced to cram. Yet this year, students found themselves with less than 24 hours to learn the concepts presented in the last class and then prepare for a final which more than likely is cumulative. As a result, many students felt they had to sacrifice sleep for studying which in turn resulted in exam performance that was not as high as it could have been.

The second problem with scheduling exams on Friday was the same one the University had tried to eliminate: distraction. What the University seems to have forgotten is that the aircraft used for static displays have to be flown in and they usually do so the day before Skyfest starts.

The Riddle student is often found gazing at commercial jetliners that take-off and land several times a day. To an outsider, it must seem like mass hysteria when they see the entire campus stopped and staring because an atypical aircraft is at Daytona Beach Regional. Knowing this, it's not too hard to figure out how impossible concentration is when aircraft such as the C-5, the Harrier and the KC-135 are inbound during a final exam.

Surely there is a solution to this dilemma. Perhaps the University could have scheduled some of the finals on Sunday mornings or the Friday that followed finals. Or another solution might have been to allow more of the instructors to exempt students from finals if they are satisfied with their grades and allow the "non-common" finals to be given during class.

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resolution should be found to resolve this problem.

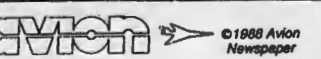
**Lounge Areas**—Another problem exists with the lounge areas. The newly opened Dorn 2 lounge has received much criticism because it is too small and not very comfortable. This lounge is often locked and this lounge is open for specified times, and be adhered to by whoever is in charge of the lounge. Some students suggested that because of the small size of the lounge, it should be turned into a recreation room and games be provided. The Dorn 1 main lounge seems to be adequate, however, measures should be taken to make it more "homey." Perhaps new furniture and a rug would help. This lounge is also in immediate need of a new television, as the color often fades on the present one. The second and third floor lounges seem to be in good order except for several missing seat cushions that seem to have been taken and not returned.

**General**—The following items are general suggestions to the Department of Housing:  
 1. Better control and operation of the A/C-based units in Dorn 1. The heat is often on during hot weather and vice-versa.  
 2. The grass on the south side of Dorn 1 should be replaced with some type of grass that will not easily disappear with acidic pH.  
 3. The main landing to the middle part of Dorn 1 is a bad slope. The metal corner strips should be replaced. The current strips are only half evident and loose and could cause an accident.  
 4. Some of the maintenance people who repair things in the dorms are also coming into the dorms to do a regular basis. It is only done when the problem is evident. These tenants seem to bother most residents a great deal and a better

7. The microwave ovens in both Dorn 1 and 2 should be replaced. This has been a problem area for the past two years. Many students complain that the microwaves leak radiation and make funny noises when using them. Womenco should be urged by the Department of Housing to replace the microwaves at once.  
 8. Access to condoms, either through RA's or machines should be available to all residents. With the current AIDS situation in the United States (and especially Florida), this would be an advisable move on the Department of Housing.

Respectfully submitted,  
 Varun Nikore, RA  
 \*GA Dorn Representative

**Avion Meetings are 5pm on Wednesdays. Come. Make it the Avion again.**



The Avion is a division of Student Government and is funded by the Students of Embury-Riddle.

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 Martin F. Smith

Photography Editor  
 Richard Clarke

Production Manager  
 Print Underwood

Space Technology Editor  
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Secretary  
 Mike Racine

This week's staff: Chris "graduate" Layvold, Erica Foster, Kell Young, and Phyllis Salmons.

The opinions expressed in the Editorial are those of the majority of the Editorial Board, and do not necessarily represent those of the university, the staff of the Avion, or the members of the student body. Opinions expressed elsewhere are those of the writer, who is identified.

Letters appearing in the Avion do not necessarily reflect the opinions of this newspaper or its staff. Letters submitted may be edited for brevity and may be printed provided they are not lewd, obscene, or libelous. Letter writers shall confine themselves to a single topic. All letters must be accompanied by the signature of the writer. Names may be withheld on request at the discretion of the Editor.

The Avion Editorial Board members are: Teresa Anderson, Chip Zedrow, Ben Brennan, Martin F. Smith, and Rich Clarke. The Avion is an Associated Press member newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisors, and the Associated Collegiate Press.

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To the Editor:

As is the case with most institutions and businesses, those associated with ERAU that have gripes and complaints are screaming the loudest. I think "you had your say" would more aptly describe the nature of the complaints I'm referring to (i.e. last issue of the Avion).

As a constant member of the student body who is proud of this school, I would like to stand up and be counted. I get so tired of hearing this school put down because of a few inconveniences that don't suit that minority of students who can't seem to cope with the shock of leaving morning for the first time. However, some of the persistent problems should be investigated further and attention brought to them.

As compared with previous Dorn Reports, many of the problem areas seemed to have been resolved. However, some of the persistent problems should be investigated further and attention brought to them.

Made: While the overall opinion of the students in Dorn 1 and 2 is that the make are doing a satisfactory job, it seems that there are a few details that do not fit an ad-apted job. The complaints are, that the basic cleaning jobs are neglected and a sub-standard job is done. Some students complained that the vacuuming was done often enough and the bathrooms were not cleaned thoroughly. Another common complaint was that if you take the make that walk long after knocking, and enter the room while students are still sleeping or getting dressed. These two problem areas are easy to remedy and should be looked into immediately.

**Fix Problems**—The most complaints have come under this category. As seen to be a general problem in dorm 1 and reaches in Dorn 2. Many students feel that a more permanent solution should be investigated. Part of the problem is the fact that maintenance is not done on a regular basis. It is only done when the problem is evident. These tenants seem to bother most residents a great deal and a better

To the Editor:

This report is a combined effort of the SO, Dorn Representative, Varun Nikore, and committee member Joseph Cobb. A brief walk-around inspection was done of Dorn 1 and 2 on Sunday, February 28, 1988. Surveys were also solicited from on-campus residents and recommendations from those surveys were also added.

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Very Sincerely,  
 Marc Anthony  
 Box 2372

# Riddle Road Runners RESEARCH

**By Greg Janacek**  
 The Riddle Road Runners Car Club will be active during the Summer A and B terms. The club promotes interest in motorsports with an emphasis on safety. Past activities include roadtrips to Don Garlits' Drag Racing Museum in Ocala, to the Malibu Grand Prix in Orlando, and participation in Super Cruise America. Club members enjoy various discounts with local merchants and Shop Nite, hosted by Bob's Auto Detail on Ridgewood Ave.  
 All students and faculty/staff with an interest in automobiles are invited to attend the next meeting at Mr. Gatti's Pizza Restaurant, located in the Volusia Plaza Mall on May 24 at 1830. Or contact Greg Janacek, Box 1136; phone 426-0067 for more information.

(continued from page 5)  
 The program's sponsor, the Office of Aeronautics and Space Technology, Washington, D.C., accented each proposal over a 6-month process that included a broadly-based national peer review followed by an internal NASA review.  
 NASA plans another competitive round to expand the participation and grow the program over the next few years to about 20 universities. Timing

and rate of growth will depend on budget availability.  
 This university-based center concept is an integral part of the strategy to rebuild the nation's space technology base.  
 We are making a special effort to reach out to the university community and make a long-term commitment for space engineering research partnerships between NASA centers and universities.

# Windsurf

**By Mike Miller Club Reporter**  
 April 26 marked the 4th regatta in a series sponsored by Windsurfing of Port Orange. From the Embury-Riddle Windsurfing team, Mike Miller and Don Bilkidan placed first and third respectively in a figure-eight slalom course.  
 Joe "Gomez" Collins and Al Wade participated in the Miami speed trials held at Sunrise Park May 1. Joe and Al reached top speeds of 18.1 and 22.1 mph. Top speed of the day went to John Duke of Orlando at 29 mph.

Mike Miller placing 2nd and 3rd. Special thanks to Bill Dolan for taking photos and participating in his first competition.  
 Tonight is the start of the Sandy Point summer series. Most of you will be happy to know that the races will be divided into two classes, above and below 7.5m. Free food and beverages will be provided by Sandy Point. Remember every Tuesday night are the continuing wop races off of Dunlawton Ave. Both races began approximately 14:50.  
 Memorial weekend the club will be competing in Miami and taking advantage of a little T&A, for more information come to our meeting tomorrow night in the Riddle theater (A109) on 1930. PFW, why? because Mai Tai said so.

# Student Alumni Association

**By Teresa Anderson**  
 The SAA would like to welcome you to Summer '88. We're starting to work on ideas for the Summer and Fall and Homecoming.  
 Thanks go out to Sabrina, Denise, Wes, Maney, and Teresa for working at the alumni tent during Skyfest. We met lots of alumni, sold some hats and had a nice lunch.  
 Recently the SAA was invited to participate in the Space Coast Alumni chapter's kick-off dinner. Sherry, Sabrina, Jennifer, Mike, Wes, and Teresa all attended. President Tallman was the guest speaker and mentioned his impression of our efforts.  
 Our next event will be a chance to relax. We'll be having a barbecue in June tentatively the 19th. Sherry will let you know when the date is firm. Remember to bring a prospective member!  
 Don't forget our next meeting will be tomorrow-Thursday, May 19 at 4 p.m. in the Alumni Relations Office.

# Biloxi Blues - review

**By Kelly Young**  
 Neil Simon has written a series of plays which are now being produced on the big screen. *Biloxi Blues* is the second story among of three from among this series. While all of Simon's stories follow a boy's quest to be an actor through his life's journey, *Biloxi Blues* is a cratically written play with moral integrity. The story is set in 1945 and is about a young man who joins the Army and goes off to basic training in Biloxi, Alabama. The plot

develops and evolves as the young man faces many trials and heart warming experiences on the road to full maturity. The movie itself is not as much about the grueling training but more about the friendships that are founded between people who have to rely on team work to survive. I don't want to give the entire story away but the comedy is laughable, the love is sweet, and the moral is good. *Biloxi Blues* is good movie to see to start the summer semester off on a light note.

Congratulations to our new member Sally Walden who placed 4th in last Sunday's Halifax Sailing Association regatta. Top finishers for the club were Dan Binkedrew and

# NASA offers contest for students to name the new space shuttle

**By Chip Zadow Space Technology Editor**  
 NASA has announced a contest to name the newest Space Shuttle Orbiter. The new Orbiter, to come off the assembly line at Rockwell International in Calif., is expected to be completed by April 1991.  
 The same *Challenger* has been retired and is not acceptable for the contest. This is to recognize the crew that was lost during the 51-L accident.  
 The contest was initiated and authorized by Congress, and is only open to school children. The orbiter, designated OV-105, is expected to have a name that decends from an exploratory or research sea vessel.  
 Winners from each state, territory,

and agency will receive awards in March 1989, and the final winner will be selected in May 1989.  
 The \$1.3 billion contract became effective in Aug., 1987 and was prompted to get the space program back to full strength after the loss of the *Challenger*. The construction is taking place at Rockwell's facility in Downey, Calif., while final assembly and check out will take place in Palmdale, Calif. Rockwell expects that the work will bring in a peak employment of 2,000 employees. Some workers will be reassigned from the B-1 project to complete the new orbiter.

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# Manned U.S./Soviet Mars trip not desirable, says State Department

**Associated Press**  
**BOSTON** — The United States should cooperate with the Soviet Union to explore the surface of Mars and set up a space training center in Australia, but steer clear of joint manned missions to other planets, a State Department official says.

Michael Ahearne, acting U.S. deputy assistant secretary for space and technology affairs, told a space writers' conference Monday the United States should commit itself to joint crews and flights with the Soviets because "politics drives programs and not the other way around."

procedures and hardware for space rescue.

Last year, the United States and the Soviet Union agreed to cooperate on 16 projects to space science.

"The agenda in front of us is so dazzling but so expensive that we may be frustrated in trying to realize it on our own," Michael said.

Panelists called for the United States to step up cooperation with Canada, Japan and its European allies in all space fields, including a 40-year effort to build a joint space station and the commercial development of space.

"If we want to do a moon base or a Mars mission we will have the cooperation before us with our European and Japanese allies, and a model to build on," Michael said.

Long-range plans adopted by the National Aeronautics and Space Administration call for creating a scientific base on the moon around the end of this century and a manned Mars mission early in the next.

Since the 1986 explosion of the space shuttle Challenger, NASA has begun re-evaluating its space exploration goals amid criticism that the country lacks a national policy on what it wants to achieve in space.

"You're starting to tie the entire space program together in a long-range process," said Alan Ludwig, director

of program support and special projects at NASA. "Maybe you thought that's where we were all going, but I don't think so."

Long-term projects in NASA's \$1.15 billion budget request for fiscal 1989 include developing hardware for a space station to be built by 1992, increasing the number of space shuttle flights after trips resume in August, continuing space science programs in astronomy and planetary research and the \$100 million Pathfinder project to develop technology for a Mars mission.

"The longer you wait to push away advanced technology as an advantage, the longer it will be to establish these goals... and we'll watch the Russians go and do it," Ludwig said, calling for Congress to approve the funding request.

Professor Sean Solomon of the Massachusetts Institute of Technology's Earth, atmospheric and planetary sciences departments said the government needs a commitment to space and science programs to attract students to the field.

"The crisis in the planetary sciences didn't begin with the Challenger accident. It was there to begin with," Solomon said. "It hasn't been two years but it's 10 years since the planetary science expedition by the United States was launched."

# INTELSAT V planned launch by ArianeSpace from French Guiana

**By Chris Lagroff**  
**Special to The Avon**  
 An INTELSAT V satellite was planned for launch early this morning from French Guiana by the ArianeSpace group. At present time, the Ariane Flight 23 launch was still in the countdown stages.

The launch is from the Ariane Launch Site at the Guiana Space Center, near Kourou, French Guiana.

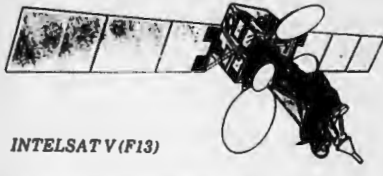
A near-gostationary positioning will move the craft to final altitude of 35,786km at 307 degrees East, at about 17 hours after launch on the fourth apogee. Its speed will be stabilized to 11,060km per hour.

The entire mission will be completed at about 75 hours after the 4,000 megawatting when the solar panels will be deployed.

## The ARIANE 2

An ARIANE 2 launch vehicle was used to insert the payload. The vehicle's use was due to its reliability to the payload requirements (the INTELSAT V has a lift-off

The three windows for the launch ranged from 11:43pm to 1:14am, and were approximately 17 minutes each with about 30 minutes between them. The launch was to make place the earliest possible window considering weather conditions.



INTELSAT V (F13)

Recent improvements in U.S.-Soviet ties may not survive the 1990s if the historically cyclical nature of superpower relations holds true, he said. A manned mission to Mars could take 20 years to carry out.

"If that is the case, does it make sense to make a moon base or a Mars mission the central part of U.S.-Soviet space ties?" Michael said in a panel discussion at the 50th Annual Aviation-Space Writers Association conference.

But he said the two countries could cooperate to send a rover to bring back samples of Mars' surface, build an instructional center to study the physical requirements of living in space, regulate space debris and establish

panels called for the United States to step up cooperation with Canada, Japan and its European allies in all space fields, including a 40-year effort to build a joint space station and the commercial development of space.

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"You're starting to tie the entire space program together in a long-range process," said Alan Ludwig, director

# Soviet nuclear powered spy satellite will fall to back to Earth this summer

**Associated Press**  
**WASHINGTON** — The Soviets have lost control of a nuclear-powered military spy satellite, experts said Friday it will shower the Earth with radioactive debris.

The satellite, Kosmos 1900, "has been in a steadily decaying orbit for the last month. If nothing is done to correct its orbit, it will decay and re-enter the Earth's atmosphere," said Maj. Alex Mondrago, a spokesman for the U.S. Space Command, in Colorado Springs, Colo.

Thus, the official Soviet news agency, reported that

Kosmos 1900 has a nuclear power plant aboard and would fall to Earth in August or September, but that the radioactive material on board would not present a danger.

However, two American experts on the Soviet space program, James Oberg and Nicholas Johnson, said it was unlikely that the radioactive material would burn up on re-entering the atmosphere, as Tass implied.

"It is a certainty that the radioactive debris will come down. The question is where," said Johnson, author of the manual study, "Soviet Year in Space." He said it was

# KNIGHTS

(continued from page 1)  
 tare of the wind blowing in the open door nears 40 degrees. Considering the windchill, it gets pretty chilly for the passengers riding in the very back of the plane. In fact, I think I am still numb.

Once the proper altitude and direction is obtained, it is time to jump. The team makes final adjustments to their rig and mentally prepare for the upcoming jump. The "tag" jumper straps the plane into its final approach and then with a subtle pull out. He disappears from sight very quickly. The first speed that a jumper attains is 120 mph, it away after a few seconds of flight. A second, or backup canopy, is deployed and the jumper is again in a state of controlled descent.

The plane again circles and allows two more sets of jumpers to demonstrate their skills. Group free-falls are demonstrated and again thrill the crowd.

The Golden Knights are acknowledged as one of the greatest performers in modern day air-shows. They demonstrate flying in its most natural state, and the skill and tenacity of the U.S. Army.

and dives until he is above the landing spot, where with a little flare of the parachute, he comes into a text-book landing.

The plane circles until it is back on jump-run. Now the "baton pass" team prepares to jump. The goal during their free-fall is to pass a baton between the two of themselves. Once again the distinguished team demonstrates its precision.

The plane again circles and gives the opportunity for another jumper to show off his stuff. This time the skydiver opens up his canopy after free-fall and then cuts it away after a few seconds of flight. A second, or backup canopy, is deployed and the jumper is again in a state of controlled descent.

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mass of 1999kg). It has a useful load of 2175kg, as opposed to the ARIANE 1's load of 1850kg, or the ARIANE 3's load of 2700kg.

ArianeSpace is also producing an ARIANE 4 version, with payload capacity of 4200kg. The first launch of this version is scheduled for next month.

The ARIANE 2 is 49m long and weighs 220 tons at lift-off. Its first stage is powered by four single axis lifting Viking V engines using 145 tons of a liquid propellant mixture. It produces 2700kN of lift-off thrust.

The second stage uses the Viking IV engine burning 34 tons of the same mixture. It is gimbal-mounted with two axes of freedom, giving pitch and yaw control. Roll control is provided by auxiliary jet foils. It produces 785kN of thrust in a vacuum.

The third stage uses a HM-7B, 63kN thrust engine. It burns 10.7 tons of liquid hydrogen and oxygen. The third stage engine is also gimbal-mounted providing similar axis control.

## Mission specifications

The first and second stages lift the payload up to a perigee altitude of 463km. At four and a half minutes after launch, the third stage will insert the satellite up to an altitude of 35,784km.

**The INTELSAT V**  
 The INTELSAT V-A (F13), a communications satellite, is to be used for telephone, television, and data transmission purposes. The INTELSAT version V is one of the largest models of commercial communication satellites built, and F13 marks the third satellite launched by ArianeSpace this year.

The launch will place the satellite in a near-geostationary orbit to enable it to be used by INTELSAT. The International Telecommunications Satellite Organization (INTELSAT) is a non-profit organization of 114 countries that owns and operates the global communications satellite system, consisting of 13 satellites over the Atlantic, Pacific, and Indian Ocean regions.

The telecommunications provided are used around the world for international communications and by more than 30 countries for domestic communications. The U.S., through its agency, COMSAT, holds the largest share of 26.4 per cent.

The satellite weighs 1185kg (after apogee motor fire) and its main body volume is 5.9 cubic meters. It has 38 transponders, 15,000 sim-lex transceiver telephone circuits, and 2 color television channels. Its expected life span is seven years.

Chris Lagroff is a former Editor-in-Chief of the Avon.

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# Astronaut selection now a bi-annual process

NASA announced plans to conduct astronaut candidate selections on a 2-year cycle and has scheduled the next class of candidates for 1990. Previously, NASA has selected astronaut candidates as needed, with selections the last 10 years occurring in 1978, 1980, 1984, 1985 and 1987.

The 2-year process will moderate the demand on resources required for candidate selection and training while maintaining the manpower levels necessary to meet mission requirements.

The next selection cycle will begin July 1, 1989, the cutoff date for applications. Applicants received after

that will be eligible for consideration in the next cycle. Nominations will be submitted by the military services at the same time. After 6 months of screening, medical evaluation and interviews, selections will be announced in January 1990 and candidates will report to the Johnson Space Center in July.

The selection process will begin again in July 1991 with the cutoff for applications to be considered in the 1992 selection. The number of selections made every 2 years will be based on projected requirements.

"NASA will continue to accept and review applications from the general public on an ongoing basis. Applicants for the Astronaut Candidate Program must be citizens of the United States."

# Air Force releases Stealth bomber and announces first flight this summer

The Secretary of the Air Force announced today that the first flight of the Advanced Technology Bomber, or B-2, is currently scheduled for this fall. On its maiden flight, the B-2 will launch from its final assembly facility at Air Force Plant 42 in Palmdale, Calif., and land at the Air Force Flight Test Center at Edwards AFB, Calif., where flight testing will be conducted.

The initial flight of the B-2 will highlight the return of the flying wing design to military aviation.

The Secretary of the Air Force Edward C. "Tex" Aldridge, Jr., said, "The first flight of the B-2, which has enjoyed bipartisan Congressional support from its inception, will represent a dramatic leap forward in technology and the achievement of a major milestone in our Nation's Strategic

Modernization Program."

The President's decision and the Congressional support to develop and procure 132 B-2's with an initial operational capability in the early 1990's following the deployment of 100 B-1B's, was based on the need to redress the strategic imbalance between the United States and the Soviets. While the acquisition of 132

# SPY

(continued from page 4)  
likely to fall in the ocean or in a sparsely populated area.

"We will know the date a few weeks before, but we won't know the exact time or general area until a few hours before," Johnson said. The orbit of Kosmos 1900 covers the Earth between 65 degrees south and north latitudes, excluding only Antarctica in the south and a swath in the north bounded by the inhabited areas of Alaska, Greenland, Scandinavia and Siberia.

Johnson and Oberg said the satellite is believed to have a system to eject the reactor core so that it would burn up rather than reach Earth. But that safety system did not activate after the Soviet loss, counter with Kosmos 1900, between April 10 and April 14, Johnson said in an interview.

"You could get that system up on a fail-safe system" to eject as soon as the satellite stopped working," he said, "but it would have activated shortly after the malfunction."

Neither "Tass" nor the U.S. Space Command spokesman described the mission of Kosmos 1900, but Oberg and Johnson said it was a RORSAT, an English-language designation which stands for Radar Ocean Reconnaissance Satellite. They are used to monitor the movement of U.S. warships.

Two other Soviet RORSATs have fallen to earth.

In January 1978, Kosmos 954, powered by 110 pounds of uranium, re-entered the atmosphere and

spread radioactive debris across Canada. The class was then redesigned to allow the reactor to be jettisoned so that it would not have the protection of the satellite body as it re-entered the atmosphere and thus would be more likely to burn up.

One of the newly designed RORSATs, Kosmos 1402, dropped from orbit on Jan. 25, 1983 over the Indian Ocean, and no radioactive debris is known to have fallen to Earth.

In the case of Kosmos 1402, said Johnson, "the core was ejected very shortly after the malfunction," in contrast to the current situation.

A top Soviet space scientist, Rostislav Sagdeyev, told a news conference in Washington that Kosmos 1900 was designed so that the radioactive material would vaporize and remain in orbit. But he said he had been in the United States for several weeks and did not have fresh information on Kosmos 1900.

Sagdeyev, who is director of the Soviet Space Research Institute and an advisor to Soviet leader Mikhail S. Gorbachev, was appearing with the private Federation of American Scientists to urge a ban on nuclear reactors in orbit.

Sagdeyev and Frank von Hippel of the American federation said that the proposal was aimed largely at crippling the U.S. "Star Wars" program, which many scientists say would use nuclear reactors to power lasers and other exotic weapons to knock down intercontinental ballistic missiles.

Sagdeyev said the only knowledge he had of the RORSAT program came from what he read in

### Western publications.

The Tass announcement, made available by the agency's office in Washington, said that "the artificial earth satellite Kosmos 1900, with a nuclear power plant aboard, was launched Dec. 12, 1987."

"According to competent Soviet organizations, radio contact with the satellite was lost in April 1989. The satellite is continuing in its intended flight, and the main service systems are functioning according to the program."

"The satellite will fly in orbit until August-September 1989, after which it will cease to exist. The satellite Kosmos 1900 has systems insuring radiation safety on completion of the flight," Tass said.

The Soviets have launched about 50 RORSATs. Two of them have fallen to earth, Kosmos 1900 is on the way down, while Kosmos 1824 remains in low orbit. The remainder have been boosted into higher orbits where there is less danger they will fall, according to Oberg and Johnson.

Oberg and Johnson said the Soviets apparently have developed a new type of ocean reconnaissance satellite, a follow-on to RORSAT, one that uses radar rather than nuclear power.

The development of a RORSAT replacement that does not rely on nuclear power would explain the Soviet decision to call for a ban on reactors in orbit.

"They are willing to give up something they are about the scrap in return for something we have not built," said Oberg.

# NASA selects nine universities to conduct space research

### National Aeronautics and Space Administration

NASA announced the selection of nine universities to conduct long-term research in promising areas of space engineering and technology.

This year's selection of University Space Engineering Research Centers includes new opportunities for university specialization such as Mars mission technologies, extraterrestrial materials, in-space construction and large space-based observatories.

The university-based centers are eligible to receive up to \$500,000 for the first year and may grow to over \$1 million a year for a minimum of four years. The centers support NASA's goal to broaden the nation's engineering capability to meet the critical needs of the civilian space program.

The Centers are:  
The University of Arizona, Center for the Utilization of Local Planetary Resources;  
The University of Cincinnati, Health Monitoring, Technology, Center for

- Space Propulsion Systems;
  - University of Colorado, Boulder, Center for Space Construction;
  - The University of Idaho, Very Large Scale Integrated Hardware Architecture Center for Space Research;
  - Massachusetts Institute of Technology, Center for Space Engineering Research Focused on Controlled Structures Technology;
  - The University of Michigan, Center for Near-Millimeter Wave Communication and Sensing Technology;
  - North Carolina State University at Raleigh and North Carolina Agricultural and Technical State University, Mars Mission Research Center;
  - The Pennsylvania State University, Center for Space Propulsion Engineering;
  - Rensselaer Polytechnic Institute, Intelligent Robotic Systems for Space Exploration.
- The nine centers were selected from 115 proposals submitted last November to NASA in response to the agency's program announcement. See RESEARCH, page 3

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# STEALTH — Skyfest draws record crowds

(continued from page 5)

B-2 bombers were originally estimated to cost \$36.6 billion (FY81), the Air Force is reevaluating cost estimates for the program as a result of current and projected fiscal constraints. When that process is completed later this year, the Air Force will release those updated figures. The acquisition of the B-2 means one capability to effectively penetrate Soviet defenses well into the 21st century.

The Air Force has previously announced that Whiteman AFB, Mo., would be the initial operating base for the B-2. Initial construction to support the aircraft's buildup at Whiteman AFB is scheduled to begin later this year. In addition, the selection of the Oklahoma City Air Logistics Center, Oklahoma City, Okla., was announced in February as the primary depot facility for the B-2.

The first flight of the B-2 this fall will represent a major achievement in an aggressive and highly successful development program.

By Martin F. Smith  
Staff Reporter

More than 50,000 people attended the fifth annual Daytonas Beach Skyfest show on Saturday and Sunday, April 16 and 17. Skyfest '80 featured an unusual number of unique acts including over 60 different types of military aircraft. The A-10 Thunderbolt II, F-4 Phantom, F-15 Eagle, F-16 Fighting Falcon, F-14 Tomcat, AV-8B Harrier, P-3 Orion, AV-8B Harrier and a variety of rotorcraft were among the aircraft featured in the largest display of military aircraft in the southeast U.S.

The highlight of Saturday's show was a rare appearance of the B-1 bomber. The B-1 made two low speed passes in the landing configuration before departing with a high speed fly-by. Witnesses stated that the B-1 suffered an engine failure during the high speed pass. The B-1 is supposed to replace the aging B-52 bomber, which was produced in 1957. Production of the B-1 was canceled by the Carter administration, but revived by Ronald Reagan.

Another point of the show was Bob Kazian's aerobics. The maneuver he performed might be considered a real yawner for anyone flying an aerobics airplane such as the Pitts Special, or the P-16 Falcon, but Hoover performed some truly amazing feats in two business transport aircraft.

Hoover's first appearance featured a Strike Commander. The aircraft is

the piston version of the same aircraft recently acquired by the Daytona Beach campus for executive travel. Hoover's aircraft has normal production models with no modifications for the aerobics he performs.

Crowds cheered as Hoover demonstrated a series of stunts. Hoover flew the runway, first with both engines and then with one shut down. He demonstrated the stall characteristics of the aircraft by diving to the maximum allowable airspeed and then pulling the aircraft up to a 90 degree nose high attitude over the show airfield. Hoover then pushed the nose over, passing through level until the nose was pointed nearly straight down and then recovered gracefully. Hoover's finale in the Strike Commander involved shutting both engines down while flying downward over the runway and maneuvering to land directly on a stop at the corner of the show without restarting the engine. Hoover then performed a series of equally impressive aerobics in a Sabliner business jet.

Another exciting act featured wing-walker extraordinaire, Johnny Kazian. Kazian is credited with bringing just 500 feet above the runway, first with both engines and then with one shut down. He demonstrated the stall characteristics of the aircraft by diving to the maximum allowable airspeed and then pulling the aircraft up to a 90 degree nose high attitude over the show airfield. Hoover then pushed the nose over, passing through level until the nose was pointed nearly straight down and then recovered gracefully. Hoover's finale in the Strike Commander involved shutting both engines down while flying downward over the runway and maneuvering to land directly on a stop at the corner of the show without restarting the engine. Hoover then performed a series of equally impressive aerobics in a Sabliner business jet.

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mystery ship unsteered. To this he says, "Others are merely wing riders." A camera mounted on the rudder of the Waco shows the view seen by Kazian and pilot Jim Franklin as the plane performs a series of loops, rolls, spins and tail-slides.

When asked about the safety of such stunts, Kazian replied that air shows are much safer today than when he started out. He noted that pilot proficiency. He also reminds all people that complacency can still lead to accidents. He said that he survives by occasionally reminding himself that wing-walking is dangerous each time he performs as it was 29 years ago. When asked about the most exciting moments in his career, Joe Jobey said that one of the most difficult moments was when he was forced to ride a plane to a crash-landing off airport tarmac onto someone's lawn. He recalled a time when a large June bug struck his knee during a performance, leaving it swollen for days.

It was surprising to learn that his biggest peril didn't come from losing his footing on the wing. He says that he's always holding onto something, so his footing is less important. He says that the oil used to make the smoke soon trailing the aircraft frequently makes the wings oily. He recalled the memory of his good friend, Art Scholl, who died while performing an inverted spin during the filming of "Top Gun." Kazian said, "Only Art knows what happened. I'll ask him about it when I see

him." The U.S. Air Force Thunderbirds performed their usual multi-discipline show on Sunday. A reception followed the performance as a local banquet. The pilots of the Thunderbirds were present, as well as Air Force Capt. J. E. Eversmire, Bill Chappell and U.S. Air Force Undersecretary James McOver.

Aircraft Maintenance Staff Sergeant Mike Millard viewed it all from a distance. Millard is one of more than 40 people responsible for insuring that the show takes place. According to Millard, there are almost 100 people enlisted for two-year tours with the Thunderbirds. He says the tour usually travels with about 60 people consisting of two support teams. People like Millard who work the thankless behind-the-scenes jobs are largely responsible for the success of the show. Because of their efforts, the Thunderbirds have never had to cancel a performance for maintenance reasons. Millard's work began in 1945 on Saturday. He helped coordinate fueling and other tasks, informing outside support groups of the Thunderbirds' itinerary. Millard remained on duty until the after-show duties were performed on Sunday before a brief tour of ERAU facilities before leaving Daytona.

Skyfest also featured performances by the Raytheon-Grumman team as well as the Eagles aerobics team. These two teams rounded the U.S. Army's Golden Knight parachute team during opening ceremonies both days.



## WANG

(continued from page 1)

cepted a position as Associate Professor of Physics at the Taiwan Provincial Taipei Institute of Technology. He worked there for one year before returning to the United States in 1960.

Initially, he worked as a Civil Engineer designing tunnels for the New York City subway system while attending graduate classes at night at the City College of New York. He was granted a scholarship at West Virginia University where in 1964 he completed a Master of Science in Aeronautical Engineering.

Meanwhile, Mrs. Wang and the couple's children were still living in Formosa. "She insisted that I find a job first before bringing them here."

In the 23 years, he has seen Embry Riddle become a world renowned university with a current enrollment of over 13,000 students (including Pre-sect and International Campuses).

He taught numerous courses in the Aeronautical Engineering Program including Statics, Solid Mechanics, Strength of Materials, Aerodynamics, Aircraft Structures, Fluid Mechanics and Applied Differential.

He served as the Department Chairman of the Engineering Department for two years and as a member of the Curriculum committee for 12 years. He served in the Faculty Council, Tenure Committee and as an editorial board member of the International Association of Engineering

the quality of instruction as evidenced by an Award of Appreciation given to Professor Wang in 1974 by the Aeronautical Engineering Foreign Students and by the recognition as Outstanding Faculty in the Aeronautical Engineering Department three times in the past two years.

Professor Wang has been named in Who's Who in American Education and Leaders in American Science (1968-69) and Who's Who in the South and Southwest (1980-81). Professor Wang was honored by the University when he was named Professor Emeritus earlier this year. He will therefore always be considered a Professor at Embry Riddle.

Former students appreciate the enthusiasm and humor Professor Wang

thing about his retirement is that future students will not have the opportunity to have him as a professor.

In reflecting upon his teaching career at ERAU, Professor Wang said: "My affection and fond memories will always remain here. I want to express my deep appreciation and thanks to all the people at ERAU with whom I have had the pleasure of working, past and present, as well as my dearest colleagues and staff whose memories will be with me the rest of my life."

After retirement, Professor Wang and his wife will move to Atlanta where they plan to alternate relaxing and traveling. One day he hopes to write a book about aircraft structures and become involved in the import-export business.

Hoover's first appearance featured a Strike Commander. The aircraft is

others who call themselves wing-walkers. Kazian actually rides the wing of the 600-horsepower Waco

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**American Red Cross**

**Giving Blood Could Someday Save YOUR Life**

**Blood Is The Gift of Life**

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(continued from page 1)

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Professor Wang began teaching at Embry-Riddle Aeronautical Institute in 1965, shortly after his relocation to Daytona Beach from Miami. When he joined the faculty, the campus consisted of rented buildings with no air conditioning and no car. The total student enrollment was approximately 200.

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Students of Professor Wang are quick to mention the word "quality" when speaking of their instructor, Mr. Wang said: "Because I consider and emphasize the quality of our students, I am known as a hard grader. However, the students have treated me fairly." The students do indeed appreciate

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The class laughed for at least five minutes. Having taken one of Wang's classes, most students would attempt to enroll in another. Several alumni mentioned that the most unfortunate

thing about his retirement is that future students will not have the opportunity to have him as a professor.

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To Professor Wang: The University faculty, students, staff, administrators and alumni wish you the best of luck and a long, healthy, happy, and prosperous retirement! We will miss you more than you will ever know!

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What A Man's  
Gotta Do**

All young men have one responsibility in common. They have to register with Selective Service within 30 days of their 18th birthday. All it takes is five minutes at any post office to fill out a



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Men's cut and blowdry	\$11.50
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All young men have one responsibility in common. They have to register with Selective Service within 30 days of their 18th birthday. All it takes is five minutes at any post office to fill out a simple form. So if you know a young man about to turn 18, remind him to register. It's one of those things he's got to do.

**Register with Selective Service  
It's quick. It's easy. And it's the law.**

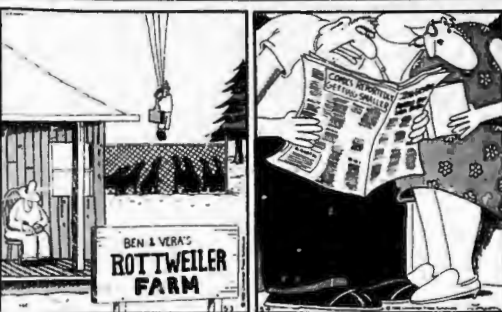
A public service message of this publication and Selective Service System

Garfield

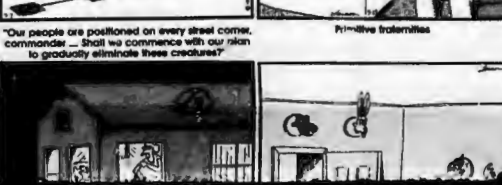
Jim Davis

The Far Side

Gary Larson



Bloom County Berke Breathed



Bloom County Berke Breathed

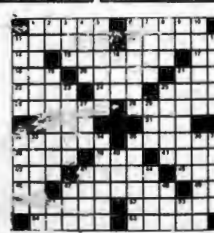


The Far Side Gary Larson



The Puzzle

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Shoe Jeff MacNelly



### Financial Aid

The American Society of Travel Agents (ASTA) Scholarship Foundation announces its scholarship competition for the 1988-89 academic year. Four scholarships are offered for undergraduate students having at least a 3.0 g.p.a., with a degree emphasis in travel and tourism. The deadline for applying is June 10, 1988. Applications are available at the Financial Aid Office in Spruance Hall.

### Experience Plus

The Counseling Center is looking for "non-traditional" students who are interested in getting together with other such students to join their group called "Experiences + here at ERAU. A "non-traditional" student is defined as someone who initially entered college after a break of four years or more from academic studies. The purpose of this group is to form a supportive social network as well as to discuss issues that affect the non-traditional student. If you are interested, please leave a copy of your work/class schedule with them in the Counseling Center (located in the University Center) by Friday, May 19 so that they can decide a time for the group's first summer get-together.

Contact Lynn Norris or Patty Ruddy in the Counseling Center at 239-6035 for further information.

### Seminars to Increase your studying effectiveness

Begin your semester right by sharpening your study skills. The Counseling Center will be facilitating three sessions so that everyone has an opportunity to work up to their academic potential. Through these informal sessions you will have an opportunity to receive valuable information and share ideas with other students.

If you are unable to attend the sessions at the time offered, please call 239-6035 and let us know that you are interested and where you are free or drop by the Counseling Center located in the University Center.

Please contact the Counseling Center and sign up one week prior to the seminar you want to attend.

#### Test Taking Tips

Tuesday, May 24 - 1330-1500 in the Faculty/Staff Lounge, second floor of the University Center. This seminar will help you to learn ways to prepare for tests, combat anxiety, and take exams efficiently.

#### Self Management and Motivation

Tuesday, May 31 - 1330-1500 in the Faculty/Staff Lounge, second floor of the University Center. Learn how to manage your time so that you can relax without guilt. Also learn how to get going when you get up and go has got up and went.

#### Lecture Note Taking

Tuesday, June 7 - 1330-1500 in the Faculty/Staff Lounge, second floor of the University Center. Get information on how to efficiently take legible, helpful lecture notes.

#### "Kick a Habit"

The Counseling Center will be holding a program to help you rid yourself of bad habits such as smoking, over-eating, phobias, procrastination, tardiness, worrying or unhealthy relationships. The group will meet weekly for four two-hour sessions, during the weeks of May 22-June 13. Group size is limited. Interested persons need to make a reservation in the Counseling Center during the week of May 16-19.

### Attention August Graduates

If you are interested in running for Senior Class President or Vice President, please schedule an appointment to meet with Laurin Rankin, Senior Class Advisor, by Tuesday, May 31, 1988. Please contact the Student Activities Office at 239-6039 or stop by. The office is located in the University Center lobby.

### Attention Pilots! This is for You!

There will be an FAA Safety Seminar May 19 at 1930 in A-109. The topics of the seminar will be "History of Aviation" and "On Weather."

**HELP PUT THE USA ON TOP!**

**IN WORLD AEROBICIS**

Without your gymnasium fitness belt help, we never could have flown in England in 1988. We're pleased that your investment in our program and our national fitness really paid off for tonight's major victory.

Among the 70 pilots at England, the nine members of the United States team were the best.

At 1930-1500, 1988, Air Sports Center.

“Dad was right. You get what you pay for.”



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Greg Riley - University of North Carolina - Class of 1989

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**FOR 1, 1/2- The ultimate beach motor. 1984 Outboard motor 85, engine runs good, no smoke, no oil, body in the good shape, no rust, no seal, also has 2000 5773. Contact Tony at 318 1117.**

**1984 NISSAN 4WD KING CAB- great condition, white, air, stereo. Never been modified, 16,000 miles. Contact Sam at 334 or 754-6168.**

**Motorcycles for sale**

**FOR SALE-1975 Kawasaki 350 cc, excellent condition, all new parts, slightly modified and faster than most 350 cc motorcycles you need to include. \$2200 also. Contact Bob at 237-3410 or through Bob 7255.**

**FOR SALE-1982 Yamaha XT 530, excellent, 3000 miles on new engine, extra tank and helmet 975. Call Sam at 767-0496.**

**FOR SALE-1981 Honda CB600 Contact Ed Pines, CFI in DRAVI Bldg.**

**WANTED-used motorcycle cover a full-size tent with screen. Please contact C. E. Ho at 390-3971 or Box 1524.**

**Roommates wanted**

**ROOMMATE NEEDED-wants to share 2 bedrooms, 2 bath apartment in Avonlea Apt. (East south of Florida on Clyn Road.) \$34/month plus 1/2 utilities, 1100 monthly deposit, access to school, swimming pool, free cable, laundry center, private bath. Call Ron at 756-9318 or home evenings.**

**ROOMMATE NEEDED-wants to share 1 bedroom furnished to share bedroom in luxury two-bedroom apt. 1 1/2 baths, year laundry room, pool, heated, private court, and lots of storage. Only \$154 per month with very small deposit. You could pay rent, but why? Call William at 761-4623 and leave message.**

**ROOMS FOR SALE-1984 Cadillac convertible (14000) 2 bedrooms, 2 bath, \$15,000 or \$320 down and assume mortgage. Call Perry (W) 239-4023 (C) 788-2374.**

**CONDOS FOR SALE-3 bedrooms, 2 bath master, pool, central, westside Miami, call (C) 208-9999, calling fax, 2 miles from school. Very close to new schools. Over 4000 sq. ft. of construction in luxury 24-hour modern community. \$13,500. Call 767-7977.**

**HOUSES FOR SALE-beautiful big home, professional finished 8 rooms, 3 baths, oak floor, phone, home calling, 4-100 year old oak trees, big corner lot, 2 car garage, finished. Must see! Call 239-9611. Selling because of health. Call Lisa at 239-3901.**

**HOUSES FOR SALE-home with large lot only one year old, 2,800 sq. ft. of home, 1,700 sq. ft. of lot at Honey Hards lot with on-property 3 bedrooms, 2 bath, inside laundry room, extra-large kitchen, deck and more. \$146,000. Call Dr. Barry at 239-6461 for more information.**

**ROOM FOR RENT-2 bedrooms/2 bath/1 car garage, home in Willow Run in 1 1/2 yrs old, oak, dryer, dishwasher, disposal, microwave, cable TV, woodwork and tile, finished with new furniture, lawn mnt. Poolside parking but no pool. Contact Connie Alford at 756-1454 or Box 2516.**

**ROOM FOR RENT-1 bedroom, only 1/2 mile from CRAU, new bathroom/shower, washer, dryer, refrigerator, dining room, dishwasher. No house to rent, only \$210 per month. Call John at 237-1763.**

**ROOM FOR RENT - 1 1/2 miles from University with bath and all utilities included, very quiet, private, big home for a nice family. 2 bedrooms, near the river on the mainland. Call Lisa at 238-3901 evenings.**

**miscellaneous for sale**

**FOR SALE-10 speed bike, good condition, lots of accessories, \$45. Call Mervyn at 239-6028 or stop by store A-302.**

**FOR SALE-Singer wash \$200. Excellent condition. Call Mike at 761-9753 evenings or early mornings.**

**FOR SALE-One single bed and one double bed table. Call Don at 235-1897.**

**FOR SALE-Tandem 1/2 cc outboard motor 150 cc. New. Fully assembled, includes all ball bearings, never steers, good control handle. Also 2 outboard motor, Tandem 4-outboard motor. Call Sam at 754-8889 after 6 pm.**

**FOR SALE- Commodore 64 with monitor and disk drive. Only \$275. Call Dr. Barry at 239-6461.**

**1977 CESSNA 173- all IFR, excellent condition, 15 STOL, fish poles, new interior, \$27,500. Call Dr. Barry at 239-6461.**

**FOR SALE-Dodge 150 deluxe almost like new. Escape's top of the line Ultra LR-70 high power engine, air conditioning, necessary features. Set for includes Dolly B, C, D, and more. \$15,115 also. Call Sam at 234-4854.**

**FOR SALE-Pan Star Eight compressor, excellent \$140. Call Mike at 761-3721.**

**FOR SALE-men's 10 speed, 25 inch Waltham all alloy, watch automatic and new. \$67. New super V and Seamon V-QT, \$153 also. Call Henry at 232-4222.**

**FOR SALE-Compass refrigerators \$75, Black Oster-style \$25, Braun Densar \$30, Braun hair sets \$20, crockpot lamps and smoking and table for sale. Call Sam at 767-3214 or home evenings.**

**FOR SALE-just condition 6 place flying wing business jet. Price negotiable at \$225. Ask for Jeff at 761-3721.**

**FOR SALE-steam air washer with handhold \$30. Call Tim or Eric at 679-3721 or reply to Box 9-111.**

**FOR SALE-Mark cherry wood dresser with mirror \$180. Call Mike at 761-3923.**

**FOR SALE-Four filing cabinets: 2 drawer, 12 inch, 18 inch, 24 inch, 36 inch in depth. Contact Jonathan at Box 5668 or call 239-0420.**

**FOR SALE-new pos. with some extra bed, great for being weight. Also, we've various other vehicles available. Call Perry (W) 239-4023 (C) 788-2374.**

**FOR SALE-1984 24" color television model wood finish. Excellent condition, \$1,500. Call Mike at 679-4344 after 6 pm.**

**FOR SALE-3 in shape, best good, weight system with bench, for sale, model 2-100B, 2-200, 2-250, 2-300, 2-350 plates bench, call Sam. Call Mike at 237-1763.**

**miscellaneous**

**NEED HELP IN MATH- if you definitely want to pass Algebra, Trig, or Statistics this summer, call for only \$200 and our help requires. Call Mike at 237-1763.**

**RESUMES FROM START TO FINISH- a complete writing service, word processing, consultations in writing, same-day service available, student discounts, pick-up and delivery available, letter-quality printer. Call Henry at 232-4222.**

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**FLY EVERY DAY-experienced flight instructor with all airplane ratings and all instrument ratings, will teach you professionally, intelligently, commercial, instrument, complex, taildragger, high-performance, gliders and aerobics. Get your ratings fast at a low cost. Call Sig at 232-4275.**

**personals**

**M. TRANCE-For everything including the flowers! You made me proud at Mission. How that you're graduated, this place won't be the same.**

**Jeff- Thanks to all who helped me with the first loan. Next time we'll be over hauled!**

**WES- You finally did it. The university won't be the same without you! Congratulations and best of luck!!! The Avion and Phoenix crew**

**Leslie- Thanks for being so understanding with me. I love you. Yours, Susannah**

**American Red Cross**



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Sign up for Army ROTC Basic Camp. You'll get six weeks of education that can build up your leadership skills as well as your body. You'll also get almost \$300. But hurry. This summer may be your last chance to graduate from college with a degree and an officer's commission. Be the all you can be. See your Professor of Military Science for details.

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Cessna 172 & 177 RG	.....	.....	\$64.00
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