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Embry-Riddle Aeronautical University

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Avion

An Aeronautics Department Newspaper

Volume 48, Issue 8

Embry-Riddle Aeronautical University, Daytona Beach, Florida

October 17, 1984

'One of the most knowledgeable people in the country'

Titus receives Southern Region top mechanic award

By Brian Nicklas
Avion Staff Reporter

When someone is awarded an honor such as being named FAA Aviation Technician of the Year for the Southern Region, you would almost expect that person to be proud to the point of bursting, well not Chandler Titus.

Titus, who was recently named

recipient of that award, is the manager of Embry-Riddle's repair station and safety supervisor of the Maintenance Division.

In talking to "T" (as he is known), it is easy to see why he is entering his 31st year at Embry-Riddle. The work going on in the repair station may seem repetitious, but Titus reports that together with the interaction with

his students, it is the continual challenges that keep him coming back.

These challenges may come from students working on the engines from the school's fleet of aircraft to problems he may encounter from phone calls from all around the country.

According to the Aviation Maintenance Division's chairman, Fred Mingle, Titus is

recognized as one of the most knowledgeable people in the country in regards to reciprocating aircraft engines. It is for this knowledge that the calls come, not only from forfiter students who now run their own repair facilities, but from all the major manufacturers as well.

The impression that Titus makes might be shown in that people remember him not only early in their careers, but much later as well. Titus recalls a former student who returned for a visit after retiring from Ozark Airlines.

He also states that he has taught the children of ex-students, and now he looks forward to teaching the third generation. This admiration is not a one-way street, however.

Titus talks with pride of a former pupil who now works at Kennedy Space Center as a pre-launch technician. This job is that of a "ground astronaut," one who performs the necessary checks prior to the arrival of the flight crew from Houston.

Walking thru the shop Titus controls, it is easy to see why the

See TITUS, page 13



Avion Photo by Mike Feltus

Chandler Titus was recently named FAA Technician of the Year for the Southern Region. Supervisor of Embry-Riddle's reciprocating engine Repair Station No. 708-55, Titus has logged 31 years here.

Governor Graham issues order

By Dan Ellinger
Avion Staff Reporter

National Higher Education Week, October 13-20, is an annual celebration sponsored by the Council for Advancement and Support of Education (CASE). During this week, public and media attention is focused on the achievements of college-educated people and the need for increased public and private support for colleges and Universities. Over 1,000 colleges across the United States and Canada have organized activities to promote better understanding of the role higher education has played in the growth of our nation.

The Governor of Florida, Bob Graham, has issued a proclamation announcing National Higher Education Week (NHEW) in Florida. Volusia County Manager, Tom Kelly, has proclaimed NHEW in Volusia Coun-

ty and Mayor Lawrence Kelly has also proclaimed NHEW in Daytona Beach.

Through the observance of NHEW 1984, we highlight the initiatives of the higher education community to strengthen the partnership between the campuses and its many constituencies - students and faculty, alumni and parents, business and industry, government and the public in general. We commend the colleges and universities, citizens are asked to renew their commitment to excellence in education on all levels.

There will be over 1,000 colleges and universities participating in a variety of programs and activities on a national level in Washington. There will also be the election of a professor of the year, and he/she in turn will give a presentation at the Smithsonian.

As part of NHEW here in

Volusia County, there will be the Volusia County College Night to be held on October 15 at Mainland Senior High School, from 7-9 p.m. There has already been response from over 95 colleges including various military institutions. There will be a booth presented by each of the attending colleges and institutions, with the hope of answering the questions presented by area students. There will be a written program of all the attending institutions as well as a session focusing on financial aid. All five area colleges will be represented, Embry-Riddle, DBCC, etc.

In addition, the News-Journal will be publishing an in-depth look at all of the Volusia Area Colleges. According to L. Daniels, of Community Relations, the future holds a promise of more energetic participation by area colleges, as this gives the colleges a common goal.

Sigma Pi misrepresented

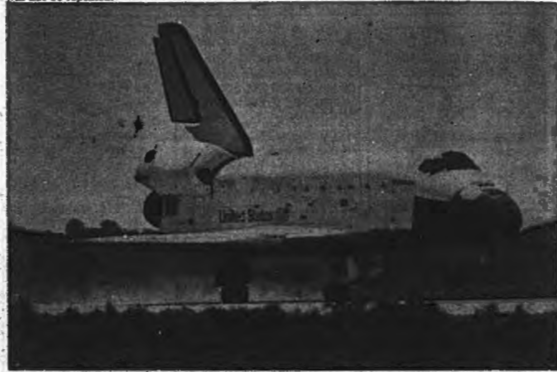
By David Severn
and Ron Przyucha

Little did most of us know here at Sigma Phi that while we all felt safe at home, unbeknownst to us we became "Sigma Phi." At first we welcomed the change, but decided it was not quite fitting. We would think that such a respectable newspaper as "The Avion" would know better than to overlook such a grave misrepresentation as this. No offense to Sigma Phi Delta, however, we are sure they feel the same way about this matter. We hope that in the future such a grave error as this will not be repeated.

On a more important note, Sigma Pi is proud to officially announce the acceptance of nine good men to Beta Pledge Class. They are Daniel Eugene Cadaret, Thomas DiCocco III, Robert Scott DiFrancesco, Philip Randal DuPre, Mario Rivers, John Paul Rouleau II, Alex Santucci, Tom Patrick Sawyer, and John Christopher Wolfe. On behalf of Zeta Beta Chapter of Sigma Pi Fraternity International, congratulations and good luck in your pledge ship.

As of August 9, 1984, Sigma Pi Fraternity of the United States expanded its holding and

See SIGMA PI, page 13



Avion photo by Brian Perreault

Space shuttle Challenger ended its eight days in earth orbit with the largest crew ever carried aloft at the Kennedy Space Center Saturday. The second mission to end at KSC, it was commander

Crippen's first shuttle landing in Florida after being waved-off on two previous attempts because of inclement weather.

Voter registration is a success

Editor's Note: Led by an Alpha Eta Rho Interfraternity Council representative, Scott Roper, Embry-Riddle held a successful voter registration drive on campus. Beginning on October 1, Roper and five deputized voter registrars succeeded in registering 281 students for the upcoming national elections in November.

By Susie Goldberg and David Gaede (CPS)

Over 400 students poured through voter registration lines at Boynton College on October 1, joining thousands of others on campus across the country that held mass registration drives in observance of National Student Registration Day.

Statewide, Massachusetts col-

leges registered nearly 3500 students during the one-day event, reports Jim Keasler with the Massachusetts Public Interest Research Group (M-PIRG), one of several student organizations sponsoring national drives to register students.

There were similar efforts at campuses nationwide last week as organizers capped what they're calling "the most ambitious student voter registration drive in history."

It was mounted, moreover, in the midst of a presidential campaign that has failed to excite much campus interest.

In New Jersey, the four Rutgers campuses alone netted nearly 2500 new student registrants.

At the University of Oregon,

where the governor proclaimed Oct. 1 State Student Registration Day as well, over 2500 joined voter lists.

Students at Cosumnes River College in California held a Michael Jackson lip-synching contest to entice their classmates to sign up to on-campus registration booths.

At Temple University in Philadelphia, student organizers even passed out voter registration forms in classes.

"The student vote is very important, and the big push is on now for students to get out and vote," says Greg Moore, president of the U.S. Student Association (USSA), another sponsor of the 1984 student vote effort.

"Right now there are 12 million college students," he notes. "In 1982 only 48 percent of students were registered and only 24 percent turned out to vote. We're trying to double those figures."

By election day, Moore hopes the national student vote campaign will have over six million students registered and ready to go to the polls.

Since last spring USSA, the coalition of campus-based Public Interest Research Groups (PIRGs), the College Democrats, and the Young Republicans have all been conducting ambitious drives to get students registered and to the voting booth.

All in all, over 750 campuses have held student voter registration activities over the last several months, sources report. National organizers are working directly with over 1000 campuses to plan additional events before the election, they add.

"This is definitely the most

Double sonic boom marks Challenger arrival at KSC

By Jeff Guzzetti

Announced by a double sonic boom that thundered throughout Central Florida, the Space Shuttle Challenger touched down at Kennedy Space Center's Runway 33 at 12:26:37 p.m. last Saturday, ending a near-perfect eight-day mission.

This marks the second KSC landing for the Shuttle Program after a total of four attempts. The first landing took place last February during Mission 41-B when Challenger touched down on the opposite end of KSC's 15,000-foot strip.

As soon as Challenger went sub-sonic, Commander Bob Crippen took the controls and landed 950 feet past the south runway threshold into a seven knot crosswind. The nosewheel touched

down 5500 feet after the main gear hit the 300-foot wide concrete strip, and the total rollout distance was 10,600 feet.

Other than producing the sonic boom, the approach and landing of Challenger was relatively unremarkable. Due to a dry upper atmosphere, the orbiter made no contrails to highlight its approach, which took place directly over Daytona Beach. And for the first time, there were no roars from T-38 chase planes which normally escort shuttle landings. It was revealed at the post-landing press conference that T-38 chases are no longer considered necessary by NASA.

Immediately after Challenger's landing rollout, the Space Shuttle Recovery Convoy rushed to the or-

See CHALLENGER, page 11

See VOTERS, page 14

Editorial

Timely weather, do we need it?

Embry-Riddle's Daytona Beach campus has a new provost and the administration and the Board of Trustees seem on the verge of selecting a university president. These leaders are not only being selected on the basis of their track record, but on their ability to plan for the future. Among the many programs that must be planned for in the maturation of this campus is the future of our flight planning weather facility.

Currently, the weather station at the flight line provides scheduled station reports and detailed facsimile charts that theoretically can be used to forecast weather conditions at Daytona Beach and the airports our pilots fly to during the course of their flight instruction. Unfortunately, the data collected at the facility is incomplete because the computer purchased to print it cannot be programmed to update the weather with amended forecasts and rider specials, special surface reports and pilot reports. While the information is available on the transmission line we receive, the data literally flashes by on the screen because we have no efficient way to assimilate it.

The National Weather Service is presently in a period of transition. Modernizing from the ultra-slow teletype of just a few years ago, the NWS is computerizing to high-speed data dissemination. Eventually, weather information will be transmitted by satellite and assume its proper place as the most timely of flight planning tools. For more than a year the Embry-Riddle weather facility has had to be satisfied with getting only half the weather, despite the fact that all the information is there. Because our student assistants working in the weather room are not licensed weather briefers, flight students are required to contact Flight Service to insure that they have all the data pertinent to their flight. However, Flight Service should be used more to confirm gathered data rather than as a primary source. This would considerably speed the flight planning process.

The solution is either a more complex computer in our weather facility to assimilate the data we now receive or a subscription to a weather service which issues all the data for a particular area, including updates.

While the NWS is transitioning from the past to the future it would not make sense to purchase equipment that will soon become obsolete. But, whatever is determined to be the best for Embry-Riddle's flight and meteorology students, rather than plan for the coming term, the university should take a long, hard look at what the next ten years look like.

President's Corner

The Office of the S.G.A. Vice President, keeping up with progress and change, has expanded much more than the traditional role. As Chairman of the Student Union Board (SUB) and the Fraternities, Clubs and Organizations Allocation Committee (FCOAC), the Vice President is constantly dealing with all the divisions of the SGA as well as the majority of the active student organizations on campus.

The SUB is the budgetary advisory committee of the SGA. It deals with the management and dispersment of funds to all divisions as well as projects and special accounts. It is composed of representatives from all the divisions who make their recommendations to SAC.

The FCOAC is composed of three student-at-large representatives and a staff member from the Student Activities Office. The committee makes recommendations to SAC concerning fair distribution of SGA funds available to chartered fraternities, clubs and organizations. Guidelines for this committee were recently revised to keep pace with the expanding numbers of organizations on campus and also to raise the amount of funds available to each.

Both of these committees are advisory boards to SAC as a means to fully investigate monetary issues brought to the Student Government. The goals of each are to distribute money as effectively and efficiently as possible and to insure the best opportunities and services are provided to the students of Embry-Riddle.

Matt Maranto
SGA Vice president

the avion

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The opinions expressed in this newspaper are not necessarily those of the University or of all the members of the Student Body. Letters appearing in THIS 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 it is not libel, obscene, or abusive. All letters must be accompanied by the signature of the writer. Names or titles will be withheld on request at the discretion of the Editor.

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The Avion is produced by a volunteer, student-journalist staff weekly throughout the academic year and bi-weekly throughout the summer. Letters may be addressed to: THE AVION, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32014. Phone: 904-223-2561 Ext. 1082.



LETTERS

Poor planning

To the Editor:

The recent changes made to the parking facilities have led to some rather dangerous consequences. For example, the lack of traffic control devices; e.g. pedestrian crosswalks, stop signs, has created this dire situation. Without these devices, motorists insist upon driving through the parking lot with out regard for property or human life.

It seems that this unfortunate situation could have been entirely avoided if the administration had done any planning. Any civil engineer constructing a parking facility to fit the requirements of E-RAU should have been aware of the large amount of pedestrian traffic. In addition, the administration in their "infinite wisdom" should have foreseen the consequences of this action. A faux pas of this magnitude which endangers human life should not be tolerated and requires immediate correction.

Rich Gray
Box 2064

During the past week the ad-

ministration has taken steps to alleviate some of the problems posed. However, the construction of crosswalks and the installation of stop signs cannot force safe driving habits upon campus motorists. Strict enforcement of speeding and careless driving regulations is necessary also.-Ed.

Ahhhhhh!

To the Editor:

I can't believe it!! Something on this campus concerning the Safety of Students finally took a GIANT leap forward. A student can finally walk from the U.C. to the Academic Complex without dodging between cars. A path for students is the single most inventive act this university has come up with since the invention of speed bumps. Even the way to and from the flight line and A.M.T. is improved since someone took part of the fella down.

Thank you, thank You, thank you. Now all we need is to give the students permission to either give tickets to speeders, or permission to render all cars belong-

ing to speeders a swift kick in the side door.

Those who will not abide by the 10 mph rule should park in the brand new parking lot, and "WALK." It's a lot safer.

Michael P. Gielsta
Box 2064

Your quick response is evidence that the need has been there for quite a while. Other responses are welcomed to enforce the need for continued pedestrian safety improvements.

Do you know me?

To the Editor:

After four years at this school I suppose I should be accustomed to the Riddle Rumor and anything else to make life here more difficult. Only recently have I discovered our Post Office joining the ranks of the red tape and trouble making machine.

I have received more packages through that Post Office than most students, and after my first term, I could walk in, say hello and be handed my box almost before I produced my slip. After a time of matching my ID card to my face and box number most of

the employees could recognize me and the ID was unnecessary.

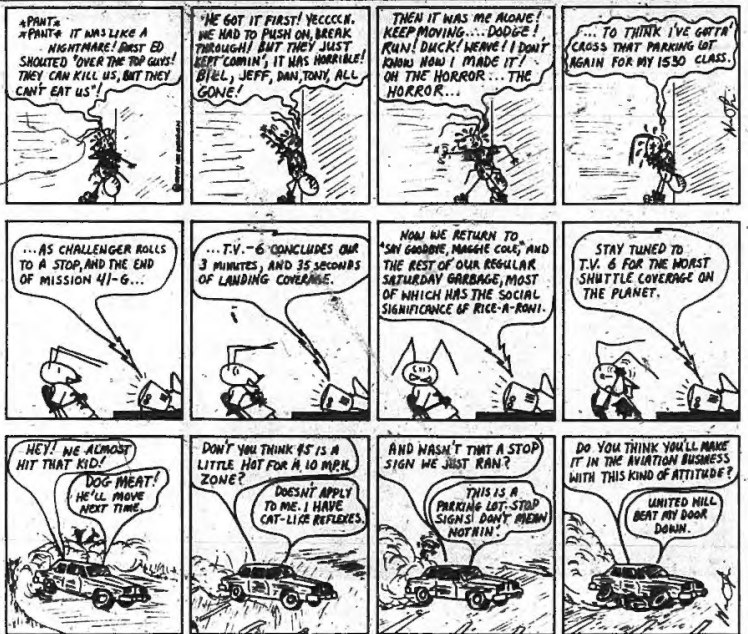
It was a courtesy to me to be able to walk in and receive my package without having to fiddle through my wallet, while balancing my books and motorcycle helmet. I felt a little bit special because I was known and received a little extra treatment, like I'm sure others receive (and appreciate).

Now the post office has seen fit to destroy this special feeling. Once again, I must produce my ID card to employees who know me and I must admit, it is a credit to the Post Office having employees who follow the rules.

Does the post office supervisor, Mr. Henry, think his employees that incompetent that they would give someone they know a wrong package. The Postal employees, I'm sure, know their job and they have not made a mistake with any of my mail. Why can't Mr. Henry let them do their job the way they have been - very well with a personal touch, without stifling them with details causing more trouble than it's worth.

Name Withheld

After four years, one would think you might be used to it.-Ed.



Equal Rights Amendment ignores homosexuality



IS CREMATION ALLOWED in Florida? Yes, cremation is permitted in Florida. Section 732.804 is the only statute relating to cremation and states that the fact that cremation occurred pursuant to a provision of a Will or any written contract signed by the decedent in which he expressed his intent that his body be cremated is a complete defense to a cause of action

against the personal representative or person providing the services....

IS IT TRUE THAT IF THE Equal Rights Amendment is ratified, homosexuals will be allowed to marry and adopt children legally? The Equal Rights Amendment is an amendment to equalize the rights of the sexes, not the sexes' sexual preference. Since homosexuality

denotes a sexual preference, the amendment does not address itself specifically to this question. State laws currently controlling in the areas of marriage and adoption should not be affected by the amendment, other than to eliminate any references, given either sex in regard to child custody, alimony, child support, etc. However, most of these preferences have already been

eliminated by statute. It remains to be seen how the Court will interpret the Equal Rights Amendment if it is adopted. The text of the amendment is as follows: Section 1—Equality of Rights under the law shall not be denied or abridged by the United States or by any state on account of sex. Section 2—The Congress shall have the power to enforce by appropriate legislation, the provisions of this article. Section 3—This amendment shall take effect two (2) years after the date of ratification. For further information on this topic, there is an article entitled "Legality of Homosexual Marriage," Yale Law Journal, Volume 52, Year 1973, Pages 583 to 589.

port furnished by a parent to an adult child are presumed to be free and may even be moral obligations. The presumed idea that support is offered to the adult child for free may be overdone. The parents must prove that the intent for repayment by the child was made by explicit and direct words. If such an understanding can be shown, then a parent may enforce a breach of contract action against his or her child to repay the expenses....

IF YOU WORKED FOR A firm for 30 years, knowing that retirement benefits would be denied if you quit before the age of 65, would your retirement benefits be denied if you quit at age 49? There is nothing that would permit you to secure retirement benefits if you quit before they vest. There are various vesting alternatives and it would be impossible to give specific advice without examining plans involved. The law allows a company to set eligibility and vesting requirements, within certain parameters. Normally, if you quit before you are vested in a plan, you forfeit your benefits. (Due to the complexity of the law, statements made in this column are of a general nature and may not necessarily apply to a similar legal problem.)

Whirly-Girls award scholarships in January

WASHINGTON, For 1985, the 30th Anniversary of the Whirly-Girls, two scholarships (\$4,000 each) will be awarded next January to deserving women pilots for use in obtaining an add-on helicopter rating. Ellen Cordeur, President of The Whirly-Girls Scholarship Fund announced today.

Each year, since 1968, The Whirly-Girls, international association of women helicopter pilots, has awarded the Doris Mullen Scholarship in memory of

Whirly-Girl no. 84. The 1985 Doris Mullen Scholarship will be awarded to a commercial woman airplane pilot to achieve her initial helicopter rating.

For this anniversary year, in memory of Charter Member Hanna Retach; Whirly-Girl no. 1, the second Scholarship will be awarded to a Whirly-Girl to allow her to pursue additional helicopter ratings to further her degree of professionalism and marketability as a professional pilot in the helicopter industry.

Applicants for the 1985 Doris Mullen Scholarship must have true financial need and currently hold a commercial airplane license. They must be representative of high standards upheld by the Whirly-Girls and must have demonstrated a strong desire and a sincere effort to pursue a career as a helicopter pilot.

Applicants for the 1985 Hanna Retach Anniversary Scholarship, also must have true financial need and be an active member of The Whirly-Girls. They must

have demonstrated a sincere effort to pursue a career in the aviation industry, with a genuine desire to specialize in helicopters and be representative of the Whirly-Girls' high standards.

Scholarship applications are available from The Whirly-Girls, Suite 700, 1725 De Sales Street, N.W., Washington, D.C. 20036, U.S.A. Applicants are asked to indicate the scholarship for which they are applying.

Deadline for receipt of completed applications, with a check for \$10 enclosed, payable to The Whirly-Girls Scholarship Fund, to cover the cost of processing and mailing, is NOVEMBER 1, 1984.

The Scholarships will be presented at The Whirly-Girls Scholarship Awards Dinner, January 18, 1985, at the New Orleans Hilton Hotel.

Organized in 1955 with the 13 women helicopter pilots in France, Germany and the U.S.A., The Whirly-Girls now number 458 in 25 countries. The Scholarship program has had the support of The Flying Physicians Association, the helicopter manufacturers, The Men's and Ladies Auxiliaries, husbands, instructors, and military.

Piedmont offers student fares

WINSTON-SALEM, Piedmont Airlines is starting a special College Student Fare that saves full-time college and graduate students 50 percent off a regular coach ticket.

The new fare is effective October 8 through February 28, 1985 with certain holidays blacked out.

William G. McGee, Piedmont senior vice president-marketing, said that the new fare should attract students looking for fall and winter travel bargains.

"Among the 90 cities we operate flights to the five most

popular Florida destinations and the ski country of Denver," McGee said. "We expect students to use the fare for everything from vacations to long-awaited trips home."

In Florida, Piedmont flies to Daytona Beach, Jacksonville, Miami, Orlando and Tampa/St. Petersburg/Clearwater. Other popular destinations the airline operates daily flights to include Atlanta, Baltimore, Boston, Charleston, S.C., Chicago, Dallas, Detroit, Houston, Los Angeles, Memphis, New Orleans, New York, Philadelphia and Washington, D.C. Piedmont flies to 24 states and the District of Columbia and will add San Francisco, Rochester, N.Y., and Evansville, Ind., to its route system November 1.

The only requirements to use the new College Student Fare besides full-time student status at an accredited college, university, junior college or post-high school technical school are that:

-Tickets must be bought as round trips and purchased at least seven days in advance.

-Travel cannot occur on Fridays or after 1:00 p.m. on Sundays.

-A valid student ID must be presented at time of purchase or at the ticket counter and must match the name on the ticket bought.

-Students must not be over 25 years old.

The special fare cannot be used on November 20, 21, 23, 26 and December 21, 22, 23, 29, 30. Tickets are non-refundable.

AAS walks for urban ministries

By AAS/ILT. David Brescia

On Saturday, October 13, members of the Arnold Air Society worked with the Halifax Urban Ministries on a walkathon. The members duties included manning checkpoints and some administrative work. The participants were sponsored with donations of food instead of money and the proceeds will be distributed to the needy in the surrounding communities. Also on Saturday, some of the members and pledges manned an awareness booth for the March of Dimes in Volusia Mall.

Meanwhile Area VIII staff members are busy finalizing plans to attend the Commanders Call November 2-4 at Florida State University in Tallahassee. A Commanders Call is a two or three day conference, usually on weekends, of all the Arnold Air Society squadrons within each specified region. The Gill Robb Wilson Squadron at Embury Riddle is the location of Area VIII Headquarters and is required to attend the Commanders Call.

Responsible for the 9 schools located in 3 states and Puerto Rico which make up Area VIII is AAS/Joe Dell'Arciprete. Joe and his staff have been busy preparing for this Commanders Call since the beginning of the trimester.

This year's pledge class is continuing strongly. They recently held another fund raiser and have announced that as one of their class projects they will sponsor one of the social events at next spring's area convale.

The pledges are almost halfway through their pledgship and must have 30 of the required 55 signatures by tonight's pledge meeting.

SK

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Grab your favorite ghouls, and come together.
Ask about The GRUESOM TWSOME SPECIAL

Departs this world 9p.m. October 27
Returns (Hopefully?)! Midnight (The witching hour)

"Who ya' gonna call?"
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For Reservations, & more information.

Did You Know?

Meal Plan prices are prorated each week and may be purchased anytime during the trimester.

Meals Per Week	Mon-Fri Only	10	15	19
Beginning				
9/23 - 9/29	\$166.65	\$300.30	\$400.18	\$447.59
10/7 - 10/13	\$136.65	\$245.70	\$327.42	\$366.21
10/21 - 10/27	\$106.05	\$191.10	\$254.66	\$284.83

Meal Plans may be purchased Monday through Friday, 10 A.M. until 3 P.M. in the kitchen office.

On the turntable

No brakes for Waite

By Todd Hufstetler

There's no stopping John Waite now with his new album "No Brakes"; since his new number one smash hit "Missing You", he has become a very popular musician on the music charts.

Waite's music is very upbeat and rhythmic. Most of his songs seem to change back and forth from a soft beat and mellow lyrics like "Restless Hearts" to "Saturday Night" with very upbeat music, and lyrics.

Three fourths of Waite's songs off his new album, contain lyrics that are written about Waite and another girl. For example, "Restless Hearts" goes something like this: "Three years gone you still alone I look I'm so lonely I look in the mirror See those lines on my face All of my dreams are gone Flying with the starlings They were not stolen gems Coloured glass I can't replace"

"Tears" is one of the best songs off his new album I think, especially with Gary Myrick's excellent performance on the Guitars; Carly Smith's constant energetic drum beat; and Bruce Brodys's superior keyboard abilities. "Dark Side of the Sun" is also another exceptional tune; and with Steve Szales on the percussions and Donnie Novosy on the Electric Bass Guitar, Waite's band has a distinctive amount of talent.

A few of Waite's songs off his new album are "Missing You", "Love Collision", "For Your Love", "Dreamtime/Shake it Up"; and a few of the songs I mentioned earlier. Waite's music style is Pop Rock; the type you hear on the top forty countdown every week. This album is excellent, and the music he sings seems symbolic in terms of peoples-relationships.

On a scale from 1-10 I give John Waite a 9.

Albums courtesy Spec's Records and Tapes.

What's hot

ROCK SINGLES

1. JOHN CAFFERTY & THE BRAVER BROWN BAND-On The Dark Side
2. U2-Rattle and Hum
3. DAVID BOWIE-Shin Jean
4. BRUCE SPRINGSTEEN-Cover Me
5. SURVIVOR Can't Hold Back
6. THE F.D.O.-Are We Out Yet?
7. LINSEY BUCKINGHAM-Go In-Sane
8. JOHN WAITE-Tears
9. HONEYMOON SUITE-New Girl
10. BILLY IDOL-Flesh For Fantasy

DANCE TRAX

1. SWEET AWAY-Glenn Ross
2. LET'S GO CRAZY/ROTIC CITY-Primo
3. THE MEDICINE SONGS-Shepstone Miller
4. WOOD BEEZ/ABSOLUTE-Berlin Polaris
5. I FEEL FOR YOU-Chaka Khan
6. TWO THIRDS-Funkless Go To Hollywood
7. IN THE EVENING-Abby Lee Ralph
8. SLIPPERY PEOPLE-The Staple Singers
9. TORTURE-The Jacksons
10. THE LUCKY ONE (re-ent)-Lynn Stripling

COUNTRY SINGLES

1. UNCLE PEN-Niky Boggs
2. I DON'T KNOW-Conway Twitty
3. TO ME-Barbers Mendell & Lee Greenway
4. IF YOU'RE GONNA PLAY IN TEXAS-Alabama
5. THE LADY TAKES THE COWBOY-Larry Gales
6. CITY OF NEW ORLEANS-Winn Nelson
7. SECOND HAND HEART-Gary Nardino
8. I'VE BEEN AROUND-John Schneider
9. GIVE ME ONE MORE CHANCE-Dee Dee
10. THE WILD SIDE OF ME-Dan Seals

RHYTHM & BLUES

1. JUST CALLED TO SAY, I LOVE YOU-Stevie Wonder
2. CARIBBEAN QUEEN-Billy Ocean
3. LET'S GO CRAZY-Primo
4. I FEEL FOR YOU-Chaka Khan
5. YOU GET THE BEST FROM ME-Alfalfa Myers
6. SWEET AWAY-Glenn Ross
7. THE LAST TIME I MADE LOVE-Joyce Kennedy & Jeffery Osborne
8. COOL IT NOW-New Edition
9. THE MEDICINE SONGS-Shepstone Miller
10. DON'T STAND ANOTHER CHANCE-James Jackson

MTV NEW VIDEOS

- CULTURE CLUB-The War Song
LITA FORD-Dressed To Kill
MEN WITHOUT HATS-Where Do The Boys Go
THE LAST CONNECTION
QUIET RUBY-Party All Night
GUEST
WANG CHUNG-Don't Be My Enemy
CLOUT IN MUSIC-Sister Sledge
SURVIVOR Can't Hold Back
KISS-Heaven On Fire

TOP TEN IN BRITAIN

1. JUST CALLED-Steve Wonder
2. GHOSHTRUSTERS-Ray Parker, Jr.
3. THE WAR SONG-Culture Club
4. PRIMO-Primo
5. CLOUT IN MUSIC-Sister Sledge
6. WHITNEY-Whitney Houston
7. BLUE JEAN-David Bowie
8. PURPLE RAIN-Prince & The New Power Generation
9. IF IT HAPPENS AGAIN-U2
10. LOVE KILLS-Freda Murray

source: Billboard

as of 10/12/84

Steppen Out...

By Jeff Guzzitelli

This week, the Avion went Steppen Out to a great little nightclub called Rumors. Located one-half mile south of Granada on A1A at Ormond Beach (in the new Altki Plaza), Rumors offers a discoclub, supperclub, and lounge all in one.

The decor of Rumors reflects the classy, drabby era of the Roaring Twenties. The lighting is low, the bar is uniquely shaped, and the dining area is terraced. The club includes a band area and a small dance floor for mixed gender activities.

The one thing that impressed me about Rumors was the fact that everything is done in a first class manner. The bartenders can twirl bottles and glasses with charming ease, the waitresses are beautifully dressed in cleanly clad uniforms, and the food waiters are all perfect gentlemen.

Rumors offers bar brand liquor drinks for a reasonable \$2.25, call brands at \$2.50, and premium liquor at \$2.75 and up. The choice of fine liquors is perhaps the best in Daytona. Rumors also serves full course meals from \$6.00 to \$12.00, and excellent "finger foods" like stuffed mushrooms, fried cheese, omelets, oysters Rockefeller, and nachos from \$3.95 and up.

Entertainment at Rumors includes The Top 40 and jazz sounds of "Secrets" six days a week. Happy Hour goes from 4:00 to 7:00 with a dollar off all drinks and free hors d'oeuvres Monday thru Saturday, and two-for-one drinks all night long on Sundays.

It's always crowded at Rumors during the weekends. The clientele is well-dressed and averages in the mid-twenties to thirties age group. Rumors may not be a good place to get smashed and raise hell with the guys, but it is a classy place to bring a date. On a scale of 1 to 10, I give Rumors a near-perfect 9.



Coming To Florida

TWISTED SISTER ***** Wednesday, October 17, 7:30 p.m. — Jacksonville Civic Auditorium, Jacksonville (\$12.25) ***** Friday, October 19, 8 p.m. — Lakeland Civic Center, Lakeland (\$12.50) HERBIE HANCOCK ***** Sunday, October 21, 8 p.m. — Bob Carr Auditorium, Orlando

OSYR LAUPER ***** Saturday, October 20, 8 p.m. — O'Connell Center, Gainesville ***** Sunday, October 21 — Fla. Institute of Technology, Melbourne ***** Friday, October 26, 8 p.m. — Bayfront Center, St. Petersburg BILLY SQUIER w/BATT ***** Thursday, October 25, 8 p.m. — Lakeland Civic Center, Lakeland (\$14.75) ***** Sunday, October 28 — O'Connell Center, Gainesville

CHEAT TRICK, K.C., NEW EDITION, SHANNON, S.O.S. BAND ***** Saturday, October 27, 9 p.m. to 1:30 a.m. — Magic Kingdom, Walt Disney World, Orlando FABIAN, the SHRETTLES, LITTLE ANTHONY, the DRETTERS, DEE CLARK and others ***** Saturday, November 3 — U.S.F. Sundome, Tampa

The LONGHORN CHAMPIONSHIP RODEO ***** November 2, 3, 4 — Lakeland Civic Center, Lakeland MILES DAVID ***** Sunday, November 4 — Ruth Eckerd Hall, Clearwater

EXILE ***** Sunday, November 4 — Finky's, Daytona RONNIE JAMES DIO ***** Saturday, November 10, 8 p.m. — Lakeland Civic Center, Lakeland (\$13.50) PAT METHENY ***** Saturday, November 24 — Tampa Theatre, Tampa

OSMOND BROTHERS ***** Sunday, November 25 — Finky's, Daytona STATLER BROTHERS ***** Saturday, December 1 — Lakeland Civic Center, Lakeland (\$11, \$12, ... tickets on sale Oct. 22) JERRY REED ***** Sunday, December 16 — Finky's, Daytona

Bayfront Center (St. Pete)	(813)993-7251
Bob Carr Auditorium	(305)443-4111
Finky's	235-5099
Lakeland Civic Center	(813)666-4111
Tom's Point After	(305)273-9600
Ruth Eckerd Hall	(813)725-1444
Tampa Theatre	(813)223-4961
USF Sundome (Tampa)	(813)974-3000
WDIZ Concert Line	(305)647-7623
WDIZ Request Line	(305)434-9100

In concert

Starship files high

By David Anderson

On Saturday, September 29, 1984, the walls of the Lakeland Civic Center were rocked by one of the best rock groups still around today, Jefferson Starship. This was one concert that the crowd of about 9,000 will never forget.

The opening act was Billy Sattelle but that was only a spark to the explosion of Jefferson

Starship. The one female, six male group originally known as Jefferson Airplane when they formed way back in the mid-1960's opened their show at about 9:00 p.m. with the song "Showdown" from their new release entitled, *Nuclear Fuzz*.

The album, in fact, is doing pretty well on the Billboard Rock Charts. Also, from that album they played "Layin' It On The Line," "No Way Out," and "Live And Let Live."

The Starship entertained the audience even more when they played songs from their more recent albums like, "Gold," "Winds of Change," "Earth" and "Modern Times." Some of those songs included, "Count On Me," "Runaway," "Be My Lady" and the hard rocking "Fixin' Your Way Back." They even played songs like "White Rabbit" and "Somebody To Love" from the old Airplane days.

Thanks to the spectacular performances of Mike Thomas (lead vocals), Grace Slick (vocals), Paul Kantner (rhythm guitar and vocals), Pete Sears (bass, vocals), David Freiberg (keyboards), Craig Chaquico (lead guitar) and finally Danny Baldwin (drums), I could sum up the concert in one word, "Excellent!"

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AIR TRAFFIC CONTROL EXAMS

If you would like to take the FAA Written Examination for ATCS, stop by and see Cathy in the Aeronautical Science Department Office, Room G-104 to pick up some application forms. These MUST BE POST-MARKED NO LATER THAN October 31, 1984. You are notified directly from the FAA sometime in November about your scheduled exam date and location. The examinations will probably be given in Orlando and they take about 4 1/2 hours.

Daytona Playhouse casts play

Daytona Playhouse is pleased to announce the casting for Friday, Saturday and Sunday are ADULTS \$6.00; CHILDREN \$3.50 (under 16). Ticket prices for Thursdays are: ADULTS \$5.50, CHILDREN \$3.50 (under 16). For reservations phone 255-2431. Doug Baker is Director. Richard Schimidt is Technical Director/Administrator.

Creed will be played by Mary Meekins. Sister Theresa will be played by Lynn Myers. "Ladies in Retirement" is an engrossing thriller concerning an eccentric country who retires to the acreage. Opening Night is November 8, with a champagne reception following the performance. Other performances are November 9, 10, 15, 16, 17, 18. Evening Performances are at 8:00

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ARS to rock E-RAU Octoberfest on 20th

There is something very familiar and reassuring in the sound of the Atlanta Rhythm Section holding fourth across the airways year after year, a consistent output that few groups - Northern, Southern, British, you name it - are able to match. It is hard to recall a moment during the last years when ARS wasn't keeping its hybrid brand of rock 'n' roll at the very top of the charts, starting with 1977's "So In To You," then the following year with "Imaginary Lover" and "I'm Not Gonna Let It Bother Me Tonight," with "Do It Or Die" and their remake of "Spooky" in '79, and "Alien" in 1982.

There are always those folks, of course, who'd argue that any group with the collective strengths of ARS couldn't possibly lose: the individual talents of each musician in the band, all quiet veterans of the studio session wars long before they'd got together in the band; and the awesome songwriting abilities of the band members collaborating with their new producer Chips Moman.

Circumstances willing back then at the start, could things've been easier for the Atlanta Rhythm Section? After all, the original instrumental-based quintet had really earned its name - The Atlanta Rhythm Section - by virtue of having been teamed up as early as 1970, to back up Roy Orbison during a session, then gradually establishing itself as Atlanta's indispensable studio backup group over hundreds of recordings.

Yet they'd had individual recording successes even years before that. Senior member J.R. Cobb, born in Birmingham, Alabama, had moved to Jacksonville, Florida, where he joined up with the other members of the Classics IV. They soon emigrated to Atlanta, where Cobb collaborated on a new tune, "Spooky." The hard-working band landed a contract with Imperial and their first single was a no. 1 smash through that winter '68, "Spooky." When Cobb (and the bassist) left mid-year to pursue his songwriting, he was replaced by Dean Daughtry on keyboards (and a new guitarist).



The Atlanta Rhythm Section, along with the Skip Castro Band, will be appearing at Octoberfest this Saturday, October 20, at 1 P.M. The Atlanta Rhythm Section has released 10 albums since their debut in 1972 and continue to rock audiences with their latest release "Quinnella".

Born in the town of Dothan, Alabama, Daughtry had toured England and Europe a few years earlier in Roy Orbison's band (still in his teens), which later metamorphosed into the Candyman. Meanwhile, the Classics IV collected a second million-seller by the end of 1968, "Stormy." Their third gold single took the Classics IV into the first months of '69, "Traces," followed by a fourth hit from the same pens, "Every Day With Your Girl."

As the Atlanta Rhythm Section, the band released their debut LP in 1972 and waited for the world to beat a path to their door. When it didn't their singer was replaced. The next LP however, did not fare much better Back Up Against the Wall (1973).

They switched record companies, and switched their attack - leaving Georgia's serenity and hitting the road on-tour - and were rewarded with a modest-selling single, "Doraville," off their third album, Third Annual Pipe Dream (1974).

More hard work on the road preceded ARS cutting the fourth LP, Dog Days (1975). The touring schedule was still a tough grind and although the next album Red Tape (1976) managed to capture their live sound better, it also sold only moderately. By the end of the year, a frustrated ARS was nearly ready to pack it in. The next LP would be the acid test: ARS was given 45 days to compose, record, and deliver the finished goods, instead of the usual carte blanche in the studio.

The result was an aptly-titled A Rock and Roll Alternative (1977), their first RIAA gold album, boasting their first top ten single, "So In To You." The smooth ballad approach kept them inside the top ten with their next single, "Imaginary Lover" and then "I'm Not Gonna Let It Bother Me Tonight," both from the album Champagne Jam (1978); the LP also included "Large Time," a tribute to 'Skynyrd' after the tragic plane crash of '77; 1979 brought another pair of hit singles, "Do It Or Die" and "Spooky" off the Underdog album; and the same year came the double-LP live set Are You Ready! recapping such ARS favorites as "Champagne Jam," "Georgia Rhythm," "Doraville" and the other hits. Their tenth album, The Boys From Doraville (1980), rocked the house with "Cocaine Charlie," "Rough At The Edge" and "Next Year's Rock 'n' Roll." Their last LP, Quinnella, continued the change of pace in the band's direction.

As 1984 began, the Atlanta Rhythm Section underwent changes in personnel and direction. Joining original members Barry Bailey, J.R. Cobb, and Dean Daughtry are lead singer Andy Anderson, bassist Tommy Strihling, and drummer Keith Hamerick. The band recently completed recording their debut LP for Triad Records, with the legendary Chips Moman producing. The album is scheduled for release in late June.

Skip Castro - lead band...

The Skip Castro Band earned a standing ovation at their exciting National Association of Campus Activities National Convention showcase in Nashville recently. Even though it was afternoon the band's high energy rock & roll had the crowd on their feet, especially when guitarist Bo Randall left the stage and joined those dancing in the aisles. As a result, the band which has been so successful in clubs and such a tough act to follow in concert

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ERAU ENTERTAINMENT
PRESENTS

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SATURDAY
October 20, 1984

SHOW TIME 1:00 P.M. at the Concert Field

FEATURING

Atlanta Rhythm Section

with special guest

The Skip Castro Band

also appearing

The Butterfly Man

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Drawing for 2 round trip airline tickets, courtesy of **EASTERN**
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Akron wins, UCF to host Illinois St

ORLANDO, FL. - The Fighting Knights of the University of Central Florida will host Illinois State in their fourth home game of the season. This Saturday's 7:30 p.m. game will mark the first meeting between UCF and the Redbirds.

Two weeks ago, in their previous home game, the sixth year I-AA Independent dropped a tough game to Akron University. UCF head coach, Ed O'Brien summed up the loss in his post-game conference. "We lost. We came back, but it was just a tough one to lose. We just couldn't get the big play when we needed it, especially in the second half. We had some opportunities to make big plays, but just couldn't do it. The blocked punt was most destructive. We needed the win too. We just didn't get it."

The Akron Zips wasted no time after receiving the opening kickoff: Within the first four minutes, the Redbird offense moved 80 yards in eight plays to take a 7-0 lead.

The initial Akron offensive series was highlighted by a 36 yard pass completion from Vernon Stewart to Willie Davis. On second and six from the UCF 26, Zip fullback Tony Lauro, busted up the middle for a 23 yard pick up. Two plays later Akron work horse, Mike Clark, punched up the middle with a one yard touchdown run.

UCF, unable to move on their first offensive series was forced to punt from their own 19. Akron linebacker, Russell Holmes, broke through the right side to block Glenn McCombs' punt. Steve Rafas recovered the ball in the end-zone for an Akron score. Within six minutes of the opening kickoff Akron found itself with a 14-0 lead. The Fighting Knights were able to rebound as UCF quarterback, Dana Thyssen, engineered a nine play, 70 yard scoring drive. The Deland High School graduate, completed a 19 yard play action pass to Glenn McCombs and a 16 yard completion to Ted Wilson to put the Knights on the Akron 13. After a yard burst by fullback Elgin Davis, Thyssen tossed a 12 yard touchdown pass to Brian Makar.

UCF tied things up as they capitalized on Darian Bryant's interception of a Vernon Stewart pass near mid-field. Ten plays later, Dana Thyssen scampered around the right side for a one yard touchdown run.

Akron fumbled early in the second quarter, but UCF was unable to capitalize on Davis Fore's fumble recovery. From 21 yards out, Thyssen threw three consecutive incomplete passes into the end-zone. A 38 yard field goal attempt went wide as UCF kicker, Ed O'Brien, tried to put the Knights ahead.

The UCF defensive unit stalled the Akron offense on the UCF 2 yard line. Unable to get in the end-zone, Akron had to settle for a field goal with 2:34 left in the third quarter.

UCF took the lead early in the final quarter as Thyssen hit Glenn McCombs with a 6 yard touchdown pass. Five minutes later, Akron kicker Russ Klaus, booted a 35 yard field goal to close the gap to 21-20.

Akron threatened to score again as quarterback Vernon Stewart hit tailback Brian Hagemmaier for a 59 yard reception. Reggie Edwards saved a touchdown after stopping Hagemmaier on the UCF 10. On the next play, Mike Clark fumbled to UCF's Keenan Wimbley.



University of Central Florida freshman from David Hilation (56) as he runs to the out-halfback, Robert Ector (2), gets some help

The Knights were unable to generate any offense, punted the ball away with 3:50 left in the game.

Akron fullback, Tony Lauro, capped a 52 yard drive with a 2 yard touchdown run. In hopes of preventing a loss due to a possible late UCF touchdown drive, Akron attempted a two point conversion. Vernon Stewart's pass in the end-zone was broken up by Knight linebacker, Jeff Farmer.

With 1:53 left in the game, UCF tried to get a drive going, but was plagued by a penalty and a fumble. Akron preserved its 26-21 victory as they took over with 30 seconds left in the game.



WHAT IT IS!



By Kelly

This week I would like to congratulate Chris Svendsen. Chris, an Aviation Management major, won the Avlon Sports Pool recently. He was in a three way tie with eleven out of sixteen correct. Chris was able to pull out the pool by knowing the tie breaker.

The answer for the tie breaker was the Metrodome in Minneapolis. For those who don't remember the question, it was: Name the stadium and the city where the 55th Major League all-star game will be played.

Other winners in the pool this trimester are: Mike Bernstein - Aviation Technology, Sean Barry - Aeronautical Studies and Fred Van Brunt - Aeronautical Science.

Over the summer I made the statement that the Detroit Tigers will probably loose ground after the all-star break. It surely seems the Tigers pulled one over on me as they shifted into overdrive.

Sports fans in the 'Motor City' had a spectacular week-end as the Detroit Lions pulled out an overtime win over Tampa Bay and the Tigers took the 'World Series'. Sparky and his Tigers totally dominated the season with 104 wins.

The question right now is whether the Miami Dolphins will repeat their 1972 season. If the Dolphins do repeat, they could well be called the Tigers of the NFL.

E-RAU Chess tourney a success

The Embury-Riddle Chess Club held a tournament in support of the U.S. Olympic Team this past weekend. The Olympic Team will travel to Greece to participate in a tournament in November.

The E-RAU tourney drew only fifteen players, but hopefully this will be the start of many more. Future tournaments should provide greater participation from E-RAU students and others from the Daytona area.

The winner of the tournament was Stanley French of Daytona

Beach. A five way tie for second and third place resulted with two E-RAU students, Brian Rank and A. Mirras.

Currently, the Chess Club is planning a simultaneous chess exhibition and a fall championship for November.

Last week the Chess Team defeated the Daytona Beach Chess Club 3 1/2-1 1/2. This week the team will play against the Jacksonville Chess Club in the final match of the season.

76ers, Hawks in Florida for NBA exhibition game

By Kelly A. Short

TAMPA, FL. - Professional basketball fans got a special treat recently, as the Atlanta Hawks tipped off against the Philadelphia 76ers. The NBA exhibition game was played Sunday, October 7, at University of South Florida's Sun Dome.

The 10,300 seat Sun Dome was near capacity as spectators and media alike watched professional basketball at it's best.

The Atlanta Hawks drew first blood as Hawk forward, Sly Williams, punched in a fifteen foot field goal from the right side. With 5:24 left in the first period everyone in the Dome jumped to their feet as Julius Erving, Dr. J., did what he does best. His break away slam dunk put the 76ers on top 14-12.

The game remained relatively close since both squads played all of their players. Philadelphia pulled out a victory as they defeated Atlanta 106-101.

Avlon photos by Kelly A. Short

Players on the Atlanta Hawk bench look on as teammate, Cliff Levingston (22) goes up against 76er Clemon Johnson (45). Philadelphia's Toney (1) and Barley (34), along with Atlanta's Rickey Brown (31) watch the action.

Philadelphia won the exhibition 106-101 as 9,643 attended the game at USF.

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SCORES, STATS AND STANDINGS

BOWLING

E-RAU BOWLING LEAGUE
Standings
AS OF MONDAY, 8 OCT.

Team	W	L	SP	AVG
The Untouchables	10	0	15	228.8
Francisco's Kick	18	4	22	226.4
Vet's Club	14	6	20	225.5
High Timers	12	5	17	223.7
Bud Brothers	12	8	20	223.1
"S-F's"	12	8	20	222.8
No. One Bowlers	12	8	20	222.5
3400's	11	5	16	222.5
Wangars	10	10	20	222.0
High Rollers	10	10	20	221.0
Catfish	10	10	20	220.5
Unknown Bowlers	8	12	20	219.5
Crazy B's	8	12	20	219.0
Let's Angels	7	13	20	218.5
Swainzabuzca	7	13	20	218.0
The Jeebs	7	13	20	217.5
Wright Brothers	7	13	20	217.0
Bowling Stones	6	14	20	216.5
Vet's Vandals	5	15	20	216.0
The B'row Crew	1	19	20	215.5

HIGH SERIES

High Rollers	2340
Bud Brothers	2221
UnTouchables	2219
Men	
S. Holey	610
E. Kortup-Curran	570
M. Kohn	520
Women	
B. Robertson	562
J. Basa	553
M. Meade	507

HIGH GAME

High Rollers	878
Crazy B's	834
Bud Brothers	833
Men	
S. Holey	296
P. Curran	245
M. Kohn	235
Women	
B. Robertson	180
J. Basa	191
J. Basa	185

FOOTBALL

E-RAU INTRAMURALS
Standings

R Division	W	L	T	PCT	PPFA
Sigma Chi	4-0	0	0	1000	115.18
Sigma Phi	2-1	0	0	750	99.60
Sigma Pi	2-1	1	0	650	57.29
Delta Chi	2-1	1	0	550	44.32
Sigma E	0-4	4	0	000	13.130
Lambda Chi	0-4	4	0	000	13.130

C Division

Slick Fox	0-0	1000	101.32
Buch Boys	1-1	800	81.24
Wreckers	2-2	600	61.25
Air Force	3-3	400	41.26
Berley Boys	1-3	200	21.28

H Division

Boys	3-1	750	55.25
Boys	4-0	1000	74.7
Boys	3-1	750	63.25

AVION SPORTS FOOTBALL POOL FOR 1984

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Detroit at Minnesota
Miami at New England
NY Giants at Philadelphia
Seattle at Green Bay
Washington at St. Louis
Pittsburgh at Indianpolis
Kansas City at NY Jets
L.A Raiders at San Diego
San Fran at Houston
New Orleans at Dallas

COLLEGE

Alabama at Tennessee
Georgia Tech at Auburn
Illinois St. at UCF

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E-RAU Box
PROGRAM
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9. Sigma Pi

NATIONAL FOOTBALL LEAGUE
Sunday, Oct. 21

Chicago	24	28
Detroit	12	38
Tampa Bay Buccaneers	14	17

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SOCCER

E-RAU INTRAMURALS
Schedule

17:00	Eagles vs Shack Attackers
Navy Aids vs K.S.A.	Dirty Dozen vs Afterburners 2
17:30	Vets vs Sudden Impact
A.H. 2 vs Afterburners 2	Diamond Cut vs Destroyer

BASKETBALL

E-RAU INTRAMURAL LEAGUE
Standings

TEAM	W	L	PCT	PPFA
Rocker 1	3-0	0	1000	60.94
Imperial	3-0	0	1000	60.98
Rever 2	2-1	0	666	59.43
Zebra's	2-1	0	666	47.47
B.O.N.G.	1-1	0	500	37.32
Slick Fox	1-1	0	500	29.32

THIS WEEK'S SCHEDULE
Sunday, Oct. 21

11:30	Wreckers Draw vs Vets	12:00	Delta Chi vs U.S.A.
12:00	Tallhoopers vs Org. Crime	12:00	Buch Boys vs Berley Boys
12:00	Buch Boys vs Nuclear Waste	12:00	B.O.W. vs Mag Dogs
12:00	Air Force 1 vs Fabulous 15	12:00	Sigma Phi D vs Lambda Chi
12:00	Crucifers vs U.S.A.	12:00	A.H.P. vs Sigma Phi
12:00	Sigma Phi D vs Delta Chi	12:00	Air Force vs Berley Boys
12:00	Sigma Phi vs Delta Chi	12:00	A.H.P. vs Sigma Phi
12:00	A.H.P. vs Sigma Phi	12:00	Rockers vs Blue Demons
12:00	Rockers vs Blue Demons		

TOP TEN

Offense	Defense
1. Sigma Chi	1. Air Force 1
2. Slick Fox	2. Rockers
3. Air Force	3. Tallhoopers
4. Buch Boys	4. Sigma Chi
5. A.H.P.	5. Sigma Phi
6. Mag Dogs	6. Org. Crime
7. Org. Crime	7. Buch Boy
8. Blue Demon	8. Blue Demon

GOLF

E-RAU GOLF TEAM Schedule

October 24, 25, 26
E-RAU will be hosting an Intercollegiate Journey at Pelican Bay. For further info, contact Dick Bryant in H-125 or call his office at ext. 1272.

VOLLEYBALL

E-RAU INTRAMURALS

THIS WEEK'S SCHEDULE
Thursday, Oct. 19

17:00
Eagles vs Shack Attackers
Navy Aids vs K.S.A.
Dirty Dozen vs Afterburners 2

LAST WEEK'S RESULTS

BLOCK KIDS
AFROTIC
Spliers
Eagles
Shack Attackers
Sigma Pi

NAVY AVIATION
Afterburners 2
Alpha Eta Phi
Afterburners
Vets Eagles
Destroyers
Dirty Dozen
K.S.A.

NOTES

Any E-RAU student wishing to take an advance notice, please contact the Rec. office. This is a Red Cross certified course. Class will start Friday, 19 Oct. at 4pm.

E-RAU BASEBALL Tournament
Sunday, 21 Oct.

The Eagle baseball team will travel to Jacksonville to participate in an intercollegiate tournament. The tournament will be played at the Florida Junior College campus. For further info, contact Bill Ulm.

TOP FIVE

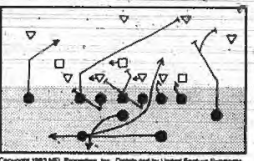
Offense	Defense
1. Rockers 1	1. Slick Fox
2. Imperial P	2. B.O.N.G.
3. Rockers 2	3. Imperial P
4. Zebra's	4. B.O.N.G.
5. B.O.N.G.	5. B.O.N.G.



Buc wide receiver Gerald Carter (87), cuts his first down reception. The Bucs inside of Viking safety Carl Lee (39) for a div return home Sunday to host the Bears.

DON SHULA'S CHALK TALK

One weapon in an offense's arsenal that coaches adore, but many defenses in madras. The flow of the play indicates one direction of attack, but the real action is in a different area. Misdirection uses a bread-and-butter play of the Dolphins when we had Larry Coonick. He was a back of tremendous power who used the night game through madras to maximum advantage. (In Super Bowl VIII, Coonick and the Dolphins gave a clinic in misdirection. He scored twice and rushed for a then Super Bowl record 145 yards.) The key to the misdirection play is making the defensive linemen hesitate. If they know what you are doing, they are so big and quick they are going to destroy you. But if they are made to wait and look—if there is even the slightest hint of uncertainty—the offense has a momentary advantage. Linebacker reaction also is important. If they commit to the initial false action, it usually is too late for them to get back to stop the runner. In the diagram, the guards and right halfback make the defense think the play is a run left; the fullback from hits at the area vacated by the right guard.



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Buch Boys drop Vets

The Buch Boys continued to roll Sunday, beating a struggling Vets Club 30-0. This marked their third consecutive win, while the Vets Club record tumbled to 1-3-1.

The Vets held the Buch Boys at the goal line on their first two possessions. The Vet defense did not remain as successful throughout the rest of the game.

The Buch Boy defense

which has not allowed any points since week one, stopped the Vets when it counted. Interceptions, one by Martinez and two by Modell, destroyed Vets Club offensive drives.

Larry Benninger, who was injured three weeks ago, will be activated this week to resume his quarterbacking duties for the Buch Boys.

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Rift develops in fraternity system, Sigma Phi's upset

By Steve Taylor

As most interested people know, the traditional inter-fraternity function, Kii-A-Keg, scheduled for this Friday has been canceled in favor of a "Greekfest". This new function, set for Friday afternoon, is definitely a step backward for the

IFC. In the past the Kii-A-Keg has been the only IFC event which actually promoted inter-fraternity relations. Now, even that has been taken away.

The brothers of Sigma Phi Delta held an emergency meeting upon being notified of the change. The result of this meeting was a unanimous vote by the

brothers to abstain from the Greekfest. One of the major reasons for this is the cost - \$30 per fraternity. Since payment doesn't take into consideration the size of each organization, it turns out some have to spend 3 to 5 times more per member in attendance. Also, having the function in the afternoon can conflict

with classes. In addition, several members are planning to attend the AIAA dinner, scheduled for 6:30 Friday. Even if these obstacles did not stand in our way, Sigma Phi Delta would probably not attend.

The movement within the IFC to change to Greekfest was spear headed primarily by social fratern-

nities lacking sufficient facilities to host a Kii-A-Keg. Their primary reason for not having a Kii-A-Keg is petty jealousy rooted in the fact that they must come to the three houses on S. Ridgewood, which, incidentally supply a much more conducive atmosphere for building inter-fraternity relations.

On a lighter note, Sigma Phi Delta's alcohol awareness party was a smashing success, with all in attendance enjoying the aforementioned fruit in abundance.

Looking ahead on the social calendar is our biannual Hot Tub Extravaganza at Dr. Phelby's abode, occurring October 20. Additionally there is a toga party scheduled for October 26.

Congratulations go to Lawrence Tran, Paul Merens, and Edgar Restrepo, who were initiated as pledges of Sigma Phi Delta on October 5, bringing the total number of pledges to thirteen.

AHP participates in The Ultimate Game

By Ben Barrocas

You and your partner carefully crawl through enemy territory. The flag is almost at your grasp, but you know the enemy's hiding in some trench or behind some bush. However, both of you decide to make a run for the flag. But without knowing, or time to think, snipers start shooting. You are wounded and out for three minutes but your friend is dead with a chest wound. You are now playing The Ultimate Game.

This week thirteen AHP brothers had the opportunity to

play The Ultimate Game. The game consists of two teams, each trying to retrieve each other's flag. However, during the process one is shot at with CO2 guns containing paint pellets. During the game players are shot at by snipers, enemy fire coming from hidden trenches, and from thick brush.

The first game that was played was against The Ultimate Game team. Members included Vietnam Veterans, members of the Orlando Police department, and John Hearn. Nevertheless, AHP brothers successfully retrieved the

enemy flag with only a few casualties. The rest of the games seemed similar to the first with AHP winning three out of four games.

Merit has to be given to those AHP brothers who can be called heroes and each deserves a bronze star. Tom Starkey, otherwise known as Daniel Boone, guided us through enemy lines and unknown territory. Fidel's guerrilla tactics helped to shoot down most enemy snipers and Steve Sullivan, with careful aim and conservative fire, had a 10-1 kill ratio. Mitch Williams led

the team as though he were George Patton. Keith McGovern's speed helped retrieve the enemy flag without being noticed - and Warren Gould's surfer instincts helped the team decide which way to move.

David Vestal's keen knowledge of rough country helped the AHP team decide where to put the best line of defense. The day was full of excitement and fun filled spirits. However, Alpha Eta Rho is still looking for a competent challenger for The Ultimate Game.

Motorcycle Club holds first meeting and tour of fall

The new E-RAU Motorcycle Club got off to an exciting start this past Sunday (10/7) as organizer Chuck Lee and Faculty advisor William Brown called for a meeting of interested cyclists. After the informal meeting the majority of the attendees set out on the first tour of the club.

The run led to Ft. Matanzas, a historic outpost of St. Augustine. After a short stop at the rock beach on the return trip, a visit was made to the Palm Coast Festival. The entire trip was about 80 miles and took about 5 hours.

The purpose of the club is to

promote safety among motorcycle riders here at E-RAU while enjoying the scenic areas of Florida.

Meetings will be held on Thursdays at 7:00 p.m. in Room E-613. All motorcycle enthusiasts are encouraged to attend.

The next run is scheduled for October 21, with a meeting at the motorcycle parking lot at E-RAU at 10:30 a.m.

At present, the club is in the process of forming and will soon submit a charter to the SGA. For questions contact: Chuck Lee, Box 6365 or Mr. Brown, Room E-614.

Creations solicits for much-needed help

By David Krahn

Are you creative? Are you interested in learning what it takes to put together a creative publication? If you are, then perhaps Creations, E-RAU's literary magazine, is just what you've been looking for.

Creations is a collection of literary and artistic talent, submitted by students and published at the end of each trimester. It is an attempt to publish some of the finest creativity, a creativity that includes poems, photographs, short stories, and drawings, all containing a wealth of insight to the world.

At present, we at Creations are

faced with a large amount of work in preparing our Fall 1984 issue. This fall marks an important turning point for the publication, since we will be working very much in cooperation with the Avion staff. With the help of the Avion staff, we will be doing our own advertising, typing (computing), and layout. Hence, we are looking for students who would enjoy learning some of these skills and responsibilities associated with the project. Creations staff positions are open in any of the above areas.

Our first staff meeting will be held on Thursday, October 18, at 5:00 p.m. in Room C-411. All in-

terested are invited to attend. And for those students interested in submitting entries for publication, the deadline for submission is November 15. Don't forget,

this is your chance to get involved! For further information, contact Jackie Berg in Humanities, A-215 or David Krahn at Box 6192.

Management Club dinner a success

By Craig A. Pellisser

The Fall 1984 Management Club program is already in full swing. The first dinner meeting of the trimester was a success with over 60 people in attendance. In addition, 235 students have applied to the club and according to our club member, "student support such as this could shake the Management Club one of the most prominent organizations on campus."

The Management Club's executive officers are: Arnold Leonora - President Susan Barlow - Executive Vice President

Chuck Hecker - Vice President Marketing Nicholas Fazio - Vice President Finance James Ewart, III - Vice President Operations Brenda Demski - Treasurer Michael Mackaman - Secretary Various staff positions are still available. There are many opportunities for potential applicants to receive invaluable experience in the world of marketing, finance and other aspects of management.

The Management Club has several organizational goals which include the following: -Helping members understand

the practical application of management.

-Establishing prominent contacts with the aviation industry, thereby increasing job placement opportunities for members.

-Becoming more involved with local business.

-Establish the Management Club among nationally affiliated professional business organizations.

Events scheduled for the upcoming month's include trips to the Delta facilities in Atlanta, the Piper facilities in Lakeland and the Kissimmee Airshow.

The distinguished Lawrence Twill, President of New York Air will be the next guest speaker for

our dinner party October 19 at Treasure Island Inn. Reservations must be made no later than November 17. The cost for members is \$8, non-members and guests will be charged \$10. Payment can be made to Brenda Demski, Box 3265.

Management Club membership isn't limited to management students. Individuals from other programs are welcome as well. So whether you're in maintenance, air science, engineering, computer science or any other program the Management Club encourages you to attend our meetings. The next general meeting will be October 22 in E-613 at 7:30 p.m..

Vet's Club relaxing

By Michael P. Geletka

Well, another Regatta is under our belt, and in all actuality, things went relatively smooth. The weather committee did a fine job providing the sunshine and current in favor of the rafters and the spectators alike. Special thanks from the Regatta committee to all club members who helped out. It would be very difficult to single out any one individual or group of individuals who did the best job. You all did fantastic jobs and made the annual event a huge success.

I would like to thank the Student Activities office for their major support in assisting with the tables and chairs. Thanks Kathy and Laurie. Also thanks to Doug Marler and Paul Brickman for the help with the sound equipment. Thanks to the Avion staff for their continually increasing

coverage and support of the largest single event to come to the Halifax area. Thanks Brian Finnegan!!!

There will be a meeting this Friday at 7:00 p.m. in the C.P.R. The board will have some final tallies on the amount raised. We will also discuss the when and where's for our annual "Ween" bash. So be sure to attend this crucial meeting so you will know the secret of the location for this well deserved party. We will also discuss the upcoming elections and the special awards committee! Plus some final details of the Christmas party.

A little update on personal happenings, Oall Foley will become Mrs. Ken Clark. Not in August as previously stated but over the Thanksgiving holiday. So, it appears that the Vets Club will have to venture into another Bachelor Party, Oh-No!!!

Scholarships offered by Army ROTC program

By Cdt. Capt. Kevin D. Garner

Has the high cost of your education been devouring your wallet and summer savings? Do you want to work part-time to finance your education? Do you realize that if you had a scholarship you might not have to work and therefore you could use your time more constructively to obtain your degree here at E-RAU? Are your mom and dad financing your education? It's possible you could relieve your parents from this financial burden. Do you wonder if you will have a job

when you graduate from E-RAU? And what about paying back all of your student loans?

The following students have won scholarships:
4 Year Scholarships
Catherine Harris - Aero. Eng.
Timothy Ledoux - Aero. Eng.
Martin Sullivan - Aero. Eng.
James Turner - Aero. Eng.

3 1/2 Year Scholarships
Frederic Laas - Av. Maint. Tech.
Lenna Mohler - Air Studies/Tran.
George Wilson - Aero. Eng.
3 Year Scholarships
Douglas Bock - Av. Tech/Flight
Jude Kotch - Aero. Eng.
Christopher Powers - Air Science
Kevin Smale - Aero. Eng.

Brian Westphal - Aero. Eng.
David York - Air Science
2 Year Scholarships
Peter Forbes - Air Science
Robin Jackson - CSWAA
Philip Rosso - Aero. Stud./C.S.
Brian Skamma - Av. Maint. Mgmt.
Laura Skamma - Av. Mgmt.
See Army, page 14

AFROTC stressing athletics

By G12/L Jeffrey Smith

Air Force ROTC is stressing athletics this tri with not only the new athletic program for GMC's but with the aerobics run for all contract cadets and the Commanders Cup too.

The physical fitness program which was put into effect this tri is getting all GMC cadets into shape. The program consists of many different physical activities that the cadets can pick from to earn points toward their promotions. Each physical activity has a certain number of points assigned to it. When the cadet finishes the

activity he or she can put the points that they have earned toward the 40 points that they need to get promoted.

Last Saturday the aerobics run was held with all contract cadets having to run 1 1/4 miles within 12 minutes for men and 14 minutes, 25 seconds for women. The run was held at the Mainland High School track under the supervision of the physical fitness department who did a very good job at keeping everything running smoothly.

Another athletic program that is coming up is the Commanders Cup which consists of activities like volleyball, tug of war and running. The Commanders Cup gets underway Saturday morning and is always a good time for all involved.

Tomorrow is Aviation Awareness Day here at Embury-Riddle and just like every year AFROTC will be taking junior ROTC cadets around on a tour of the school's Daytona Beach Airport. The tour will begin in the morning with a tour of the



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National airway/airports author addresses AAAE

By Jeffrey Miller

Mr. Donald Clausen, author of the recently enacted national plan to integrate airport systems and airways, spoke to the E-RAU Chapter of The American Association of Airport Executives at a dinner meeting held at the Treasure Island Inn on Friday, October 5th. Mr. Clausen served in Congress for twenty years and is currently the special assistant to the FAA Administrator, serving under special programs.

Mr. Clausen was given a tour of the University during which he remarked that E-RAU was "ahead of the curve" in aviation education. After his tour, Mr. Clausen, a former pilot and current private pilot, flew one of our Cessna 172's. Mr. John Phipps of the Aeronautical Science Department and Gus Carbonell, President of AAAE, were along for the flight "to charge up the battery."

In the introduction to his speech that evening, Mr. Clausen remarked that he was thankful to

see "what is going on in this dynamic University." He presented to Dr. Motz, a Congressional Certificate of Commendation "in recognition of outstanding contribution to the nation's educational system. As a Senior Vice-President to E-RAU, you have brought great credit to the University through your special project involvement in the University Aviation Association FAA Airway Science Curriculum."

Mr. Clausen began his speech by saying that there is a "new

sense of faith and optimism for the future." He said also, that the world is filled with opportunities for problem solvers and as part of Embry-Riddle we are ahead of the rest of the country. "I wouldn't be here tonight if I didn't believe in what you're doing."

Mr. Clausen went on to mention the importance of Aviation/Aerospace Education. He said the FAA has set up programs to teach elementary and junior high school students about aviation. He worked with then Gov.

Ronald Reagan in setting up the country's first Aviation Education task force in California. In a speech given to the American Association of State Highway Transportation Officials in Illinois, he said, "The time has come for you people to stop making the FAA the scapegoat for what you're not doing in your own community to educate the public as to why an airport is important." Quoting from two speeches given by Donald Engel, FAA Administrator, Mr. Clausen said, "without airports, the transportation system won't grow." He said that projections show "airplane enplanements will grow from 290 billion revenue passenger miles to almost 500 billion in 1995. The size of the business aviation/general aviation fleet is projected to increase from about 210,000 active aircraft today to almost 290,000. Hours flown per year in general aviation are expected to rise from 37 million to nearly 60 million in that same time frame." To accommodate this rise something more will have to be done than is being done now. Of the 16,000 landing sites in the FAA census,

approx. 70 percent are in private rather than public hands. 9 out of 10 of these airports are closed to the public. This leaves about 6,000 airports for public use and this figure is dropping. More use should be made of receive airports. Short parallel runways can be developed for slower aircraft and existing parallels can be used more. "Technology alone is not going to solve our capacity problems...the situation is serious, but not hopeless."

In closing Mr. Clausen said, "all of you here at Embry-Riddle know, love, and believe in what you're doing or you wouldn't be here." He also said, "We of the FAA are glad you're here." The members of E-RAU's AAAE would like to thank Mr. Clausen for taking the time to speak to our group. We would also like to thank the members of the faculty and staff who came to our meeting: Dr. Motz, Senior Vice-President; Chris Poucher, Reference Librarian; Dean Rockett, Student Affairs; our new Provost Eric Doten; Carolyn McIntyre, Admissions; and of course our advisor Mr. Gannon.

Lambda Chi supports contested Greekfest

By Matt Marjano

With Lambda Chi Alpha leading the way by withdrawing from Kill-A-Keg, the IFC voted to do away with the traditional, yet highly controversial, Kill-A-Keg, and instead have Greekfest on campus. Greekfest will take place at the BBQ pits on October 19 at 5:00 p.m. Lambda Chi supports this decision made by the IFC and would like to thank Sigma Chi, and their president, Ed Coholic, for their support.

As informal rush continues, three more associate members were welcomed into the fraternity last Monday night. They are Tom Hopkins, Steve Kulisek, and Mike Sarnacki. These men have a lifetime of brotherhood to look forward to and with the help of their Big Brothers, we're sure they'll reach their goal. This brings our total amount of Associates to 19, but Lambda Chi always wants quality to be first, not quantity. Not bad for only 14 brothers.

Upcoming events for Lambda Chi's include our annual Haunted House and our visit from Chapter Consultant Bill Margo. The Haunted House will be held once again at the home of Lambda Chi Alumnus, and our faculty advisor, Phil Metz. Lambda Chi receives funding for this event thru the Fraternity, Clubs and Organizations Allocation Committee of the S.C.A. Lambda Chi charges fifty cents

to each person going thru the Haunted House and donates all proceeds to the Conklin Center for Blind Multi-handicapped. This event is chaired by brother Eric Sherman, and he has help from his committee which includes many highly motivated Associate members. Lambda Chi's need to remember that Green and Gold day is Monday, October 22, coinciding with our consultant's visit.

Delta Chis celebrate house anniversary

By Geoff Murray

This past weekend was one of the best ever for the men of Delta Chi. The festivities began on Friday evening with a birthday party for our house and culminated early Sunday morning with the end of our Founder's Day Banquet.

October 12, 1984 celebrated ten years at 538 S. Ridgewood for Delta Chi. Ten years previous, on October 12, 1972, twenty-men collected their things and laid claim on a house now known as The Delta Chi Fraternity House.

Only with the blessings and support of our National Fraternity could such a move have been possible.

With the continued motivation and ingenuity of the men of Delta Chi, the house slowly began to improve to soon become the home it is today. Improvements such as a beautiful bar and the game room turned the house into a proud place to live. As well as overall improvements, brothers continued to do their own work on bedrooms and bathrooms. Carpeting, new oak floors and a few coats of paint have turned

each room into a separate 'apartment' that one can escape to.

In 1977 Delta Chi purchased a Doctor's Office next door and began laying out plans for even more bedrooms and living areas. After concentrated work efforts the Doctor's Office was transformed into the "Delta Chi Annex." The annex now houses seven men in air-conditioned comfort. This addition brought the total to fifteen men living in house. All of the funds for both your homes came from within.

The house is something we are proud of and stand for. It is for

these reasons that Delta Chi held a Birthday party. The party, which was attended by 100 brothers, Alumni and wives turned out to be a smashing success. Saturday marked the 93rd Anniversary of the Founding of the National Fraternity. In celebration of this event the E-RAU Chapter held its Founder's Day Banquet. More on that next week!

**Fraternities
Foster
brotherhood**

Air Force ROTC rifle and drill squads parade

By Gregg A. Cohen

On Saturday, October 6, the Air Force ROTC Drill Team, accompanied by the AFROTC Rifle Team and Band paraded on South Ridgewood, from the South Daytona City Hall to the Outlet Mall, in honor of Fireman's Day.

In previous years, the E-RAU elite teams have collected

trophies for this parade. The trophy for last weekend's performance will be awarded at the end of the month.

The Drill Team's next performance will be a silent drill performed for the "Opening Retreat Ceremony" at the Allki Towers in Ormond Beach. The DOX will be attending, and Embry-Riddle faculty and students are encouraged to watch the parade, on October 20.

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CESSNA 152 AEROBAT\$ 30.00/HR	(TO FLY LANCE YOU NEED 500 HR TT.)
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CESSNA 172 RG\$ 50.00/HR	TO FLY 125 TT 10 M&M OR 25 MULTI
CESSNA 172 (VFR).....\$ 35.00/HR	BELL 47 HELICOPTER\$ 135.00/HR
PIPER ARCHER\$ 48.00/HR	Cherokee 140\$ 35.00/HR
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MMI plans new launch vehicle

By Patrick McCarthy
Avion Staff Reporter

"We're developing a different generation of space launch vehicles," says Len Cormier, president of MMI-Third Millennium, Inc.

MMI is pursuing plans to develop and launch its "Space Van."

The Space Van is a fully-reusable mini-shuttle which is launched from atop a 747 carrier vehicle.

Following takeoff from any runway long enough to handle the 747, the piggyback combination climbs to about 40,000-ft. The 747 pulls up to a 10-30 degree flight-path angle, and the orbiter is released.

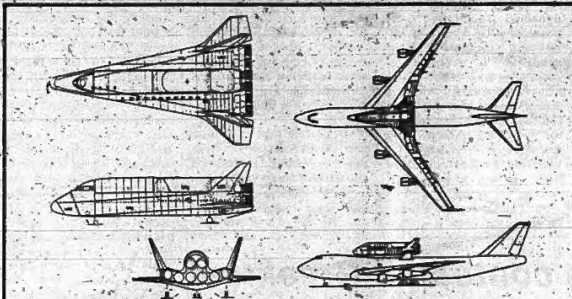
Separation occurs at a speed of mach 0.8 and along a heading which facilitates orbital rendezvous requirements. The 747 returns to the launch field and is prepared for the next launch.

In this unstaged-orbiter mode, an 800-kg (1760 lb) payload can be delivered to a 280 mile near equatorial orbit. Eastward launch from airfields near the equator will allow the 747/orbiter to take advantage of the earth's rotational velocity. Plans call for initial launches from Pago Pago, American Samoa.

After delivering its payload, the orbiter will perform a lifting reentry and glide back to the launch site.

In staged flights, a "space stage" will be carried behind the cockpit area. It will be equipped with a single RL10 engine for carrying payloads to higher orbit.

The orbiter of the Space Van system is basically the same for both booster-mode and orbiter-mode flights. The basic vehicle design has been called an "open-bed pickup truck," due to its configuration aft of the single-



MMI's Space Van may compete with the Space Shuttle during the next decade. The craft will weigh about 142,000 pounds and is designed to be launched aboard a 747. After delivering its payload, the orbiter will perform a lifting reentry and glide back to a landing.

cockpit. In both modes, the space stage and payload are nestled in a fairing behind the cockpit area. In the booster mode, the space stage is separated, leaving behind an "open-bed" aft of the cockpit and fairing section. In the "unstaged" orbiter mode, this area will be utilized to recover sections from previously orbited space stages. This is the primary purpose of the unstaged orbiter. The primary purpose of the booster-mode flights will be the efficient delivery of cargo.

The orbiter is powered by eight Pratt and Whitney RL10 engines that burn liquid oxygen and liquid hydrogen propellants. The RL10 has shown 100-percent reliability since its first use in 1963. While the RL10 was not originally designed for re-use, Cormier says that with routine maintenance it will be possible to go "about 200 flights between major overhauls."

Plans also call for the construction of an orbital transfer vehicle by combining tankage sections and engines from several space stages left in orbit. Such a vehicle could be used to propel large communications platforms or satellites from low earth orbit to geosynchronous orbit.

Use of a 747 as the "first-stage" has many advantages. It is completely reusable, which lowers operational costs. It allows the Space Van the capability to take off from any runway large enough to accommodate the 747. In comparison, the space shuttle is limited to two launch sites. The Space Van would have a rapid response capability, able to launch in minutes or hours. By choosing the correct airfield, it is

possible to achieve any orbital inclination. This gives the Space Van the ability to pass in orbit over any point on earth on short notice. But MMI will be "concentrating on near-equatorial orbits, that's where the biggest market lies," explained Cormier. MMI's president sees no problem with single-pilot flight operations. Use of a computer autopilot and a microwave landing system will even make unmanned flights possible.

Cormier foresees an initial fleet of three Vans. Given MMI's ability to raise approximately \$340 million in development and working capital funds, Cormier says Space Van could become a reality within five years.

Challenger (continues from page 1)

(Tracking and Data Relay Satellite) so a data transmission relay could be set up. This was supposed to salvage about 75 percent of the SIR-B data. However, the condition was worsened when the TDRS went inoperative for eight hours due to the moon intrusion into the field of view of the Earth sensor on the spacecraft. Normally, the sensor would be switched to another, before the moon intrusion in order to keep the data pouring in; the switching was neglected and SIR-B lost a total of 65 percent of data transmissions.

Challenger's mission boasted many major achievements, however, including the successful testing of hydrazine fuel transfer which culminated in a spacewalk involving Mission Specialists David Leasima and Kathy Sullivan. The transfer demonstrated the shuttle's ability to refuel satellites in orbit.

Other successes included the deployment of the ERBS satellite (Earth Radiation Budget Satellite), the ten experiments by Canadian Mark Garneau, and the thousands of photos of the Earth by the shuttle's Large Format Camera.

After the SIR-B antenna failure, Challenger was maneuvered so that the frozen antenna could be pointed towards the TDRS-A satellite

biter for post-landing operations. The cogged "safed" the orbiter and assisted with crew egress. The record-setting, seven-person crew appeared in good spirits as they inspected their craft. The astronauts were then flown to Houston for debriefing.

Challenger was then towed to the Orbiter Processing Facility (OPF) for post-launch analysis and preparation for its next flight in early December. The orbiter received some scorching on its right OMS pod (Orbiter Maneuvering System) and an OMS pod will be cannibalized from Atlantis, which is currently under construction in California.

Mission 41-G carried the astronauts through an eight-day, 3.4 million mile journey that was highlighted by many mission successes and a few failures. One of the failures included the 60 percent loss of data from the SIR-B (Shuttle Imaging Radar - Mission B) due to an antenna malfunction and human error on the ground.

After the SIR-B antenna failure, Challenger was maneuvered so that the frozen antenna could be pointed towards the TDRS-A satellite

The Aerospace Observer

Space briefs...

[Editor's Note: The following news items were obtained from edited NASA press releases and follow-up phone interviews. These items are very current and were published for media personnel who covered the landing of Challenger last Saturday at the KSC Press Site.]

Challenger receives check-out

Four hours after the Space Shuttle Challenger touched down at Kennedy Space Center on Saturday, recovery crews towed the orbiter into the Orbiter Processing Facility (OPF). Challenger is currently undergoing post-flight analysis in the OPF in preparation for its next flight in early December.

Preliminary inspections have shown that Challenger received some scorching on the right Orbiter Maneuvering System (OMS) pod and a new pod will be cannibalized from the orbiter Atlantis (currently under construction) for Challenger.

Discovery processing continues

Processing for the Orbiter Discovery for its November launch is continuing with the focus of activity on completing work on a replacement liquid oxygen disconnector and various hydraulic operations.

The main engine flight readiness test was completed last Friday evening. Troubleshooting on some engine valve problems that cropped up during the testing of the main engines and an analysis of a sluggish main fuel valve on the number 1 engine are being performed.

Orbiter closeouts in preparation for roll over to the Vehicle Assembly Building are continuing and the roll over itself is scheduled for 12:01 a.m. on Thursday, October 18.

NATO comsat launch postponed

The launch of a NATO III-D communications satellite aboard a Delta rocket has been postponed. Launch from Complex 17 at Cape Canaveral Air Force Station had been scheduled for October 18.

The launch has been postponed to allow time to remove and test four traveling wave tube assemblies used in the communications system aboard the spacecraft.

A new launch date will not be set until the spacecraft problem has been resolved.

Rings of Uranus photographed

Astronomers have for the first time clearly photographed the rings of Uranus, showing them to be made of particles that are possibly the darkest found in the solar system.

Two scientists at the Jet Propulsion Laboratory, Pasadena, California, used a special charge-coupled electronic camera at the Carnegie Institution's Las Campanas Observatory in Chile to record the images last April.

The rings were discovered in 1977 when they blocked out the light of a distant star just before and just after Uranus passed in front of it. Uranus is known to have nine rings. All are very narrow with the widest of them, called the epsilon ring, having an average width of about 30 miles. The new photograph shows the collective ring system and does not resolve the individual narrow rings.

Analysis of the new photograph shows the rings reflect back only about two percent of the sunlight falling on them, making them possibly the darkest material found in the solar system. Studies of the rings are particularly important because they will contribute to preparations for the encounter with Uranus of NASA's Voyager 2 in January 1986.

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High-speed flight at the fringes of space

A-12; The first, most secret Blackbird

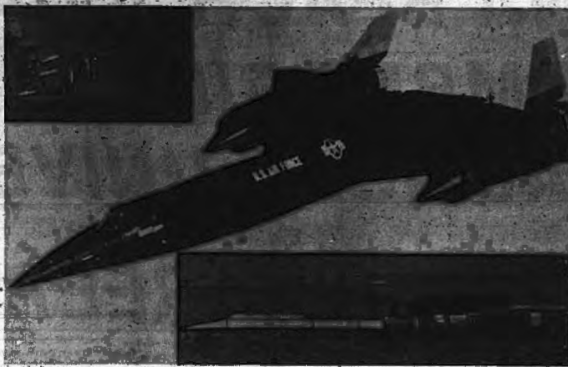
By Peter Merlin
Avion Staff Reporter

Due to its remarkable ability for high-speed flight in the fringes of space, much has been written about the famous and mysterious SR-71 and YF-12 supersonic airplanes. For precisely that reason, I do not intend to do more than mention these aircraft briefly. Instead I wish to relate the history of the least well known "Blackbird", the A-12.

The A-12 first became known to the general public in 1982. The nine remaining aircraft, of eighteen that were built, had been stored in a hangar at Lockheed's facility at Air Force Plant 42 in Palmdale, California. The hangar now contains operational SR-71 and U-2/TR-1 aircraft which make regular flights of an undisclosed nature. When the A-12's were moved outdoors, they could be easily seen from the ground and the air. Lockheed subsequently released one in flight photo of an A-12 and a very brief press release. Little by little, most of the unclassified facts have trickled out.

The A-12 was the first of the "Blackbird" family. Built in 1961 and moved to the Air Force test facility at Groom Lake in Nevada, the first prototype flew in 1962. In early flight tests, the aircraft was powered by two Pratt & Whitney J75 turbojets. These were later replaced with Pratt & Whitney J58 turbo-ramjet power plants.

In late 1962, the Central Intelligence Agency began receiving an initial batch of ten A-12 aircraft. Five more later joined the fleet. Very little information has been released regarding the test program



Center: The only in-flight photo of the A-12 ever released. Top Left: Seven of the A-12's airplanes in storage at Lockheed's Palmdale facility. Bottom Right: Reporter Peter Merlin managed to get a close-up shot of an A-12 at Palmdale. (Inset photo by Peter Merlin).

and none at all dealing with operational CIA missions. Three other A-12's were modified as YF-12A Mach 3 interceptors. Two of those were destroyed and the third is in the Air Force Museum.

What follows are the highlights of the A-12 story. The main physical differences which set the A-12 apart from other "Blackbirds" include a sharper, more angular nose and chin, and a single seat. YF-

12/SR-71 aircraft had a Fire Control Officer/Reconnaissance Systems Officer seated behind the pilot. In the A-12, there was no FCO/RSO, just an electronic sensor bay or "Q-bay". Seven out of eighteen aircraft were destroyed. Nine are currently in storage in Palmdale. An advanced development study was made for an R-12 Mach 3 bomber. The R-12 would have had three weapons bays, one offensive/offensive avionics bay, and infrared sensors recessed in the nose chin. It was never built. One A-12 was built as a trainer, with a second, elevated cockpit for an instructor and 157 powerplants which limited the maximum speed to about Mach 1.2.

Two A-12 single seaters were modified and designated M-12. Called "Mother Goose", the M-12 had a launch control officer's station in place of the "Q-bay". There was also a pylon on top of the rear fuselage, to carry and launch the OTD-21 drone. The D-21 was a ramjet powered, unmanned reconnaissance aircraft. It would cruise at Mach 4 over hostile airspace and return to a recovery area where it would eject its sensor system imagery. While the sensor package was being imaged in midair during parachute descent, the D-21 would destroy itself with an internal explosive charge. The D-21 was not used extensively with the A-12 due to launch problems. One launch mishap resulted in the destruction of an A-12.

The last flight of an A-12 occurred in June, 1968. The remaining nine aircraft sit in mothballs at Palmdale. Due to the highly sensitive nature of the A-12 program, we may never know the full story of the most mysterious "Blackbird".

Corporations compete for space station contract

ST. LOUIS, McDonnell Douglas Corporation announced today that it is teaming with Honeywell Inc., IBM and RCA to compete for a major segment of a NASA contract for the definition and preliminary design of the manned space station.

On September 15, NASA invited firms to submit proposals to study four major portions of the space station, planned for operation in the 1990's. McDonnell Douglas will bid on the work package released by the Johnson Space Center in Houston, Texas.

"We feel the Johnson package best matches the experience and abilities of our contracting team," said Robert F. Thompson, McDonnell Douglas vice president of space station programs.

The Johnson Space Center will be responsible for defining the truss-like structure which will connect various elements of the 400-foot long space station. The center will also manage a variety of other space station elements: the docking mechanisms between the station and the space shuttle,

remote manipulating arms, attitude and thermal control systems, communications and data management systems, and the outfitting of the crew's living quarters.

For the McDonnell Douglas proposal, Honeywell will contribute to stabilization and automatic controls, IBM's flight data systems, and RCA's communications and tracking.

IBM already is teamed with McDonnell Douglas on a separate NASA study awarded last spring which is examining the

requirements for the space station data system, an element of the current proposal.

In addition, McDonnell Douglas is teaming with a variety of small businesses for the proposal, including Eagle Engineering, Inc. of Houston.

According to NASA, the proposals will be due November 15 and contracts awarded in April 1985. Successful firms will then compete in each of the four work areas on 18-month preliminary design and definition studies, leading to single awards for final

design and development in 1987. NASA will remain the overall prime contractor throughout the program with Johnson Space Center being designated as the lead center.

The corporation's space station effort is focused at the McDonnell Douglas Astronautics Company in Huntington Beach, Calif. Led by Thompson, a 35-year NASA veteran who managed both the Skylab and Space Shuttle programs, the effort will be supported by McDonnell Douglas Technical Services

Company offices at Houston, Huntsville, Alabama, and the Kennedy Space Center in Florida. McDonnell Douglas has been a leader in NASA's manned space programs for over 20 years, and has participated in nearly every space station study to date.

Next week in Space Technology:
 ▶ Electric helicopter
 ▶ Shuttle fleet status
 ▶ Launch numbering

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Cessna 310	

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Daytona Beach Aviation in conjunction with Embry-Riddle Aeronautical University is sponsoring a career day to inform students of careers in the helicopter industry.

Prices will be awarded.

Where: University Center
When: All Day Today
Guest Speaker at 8:30 P.M.



Be sure to attend.

Tickets for the prize drawings will be given out in the U.C. at the evening presentation.

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Helicopter flight training for \$115.00 per hour for a completed course if registered by 1 November 1984

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BUILD-EQUITY! Payments lower than apartment rent. 1983 Champion Mobile Home, 14'x20', 2 bdrm, screened porch, central air, large kitchen. 761-7891 or Box 5011.
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ROOMMATE WANTED, female preferred, to share a two-bedroom house, 2 1/2 miles from S.R. 41, \$100/month, plus 1/2 utilities plus \$100 deposit (last month's rent). Call 253-4062 evenings or 253-3122 if no answer, keep trying.

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SCHWINN 5-SPEED TOURING BICYCLE, size 21", frame on 21" wheel, new tires and cables. \$50. Phone 258-0465.
VW BUG TOW BAR, used twice, heavy duty, \$30. Blackjacks, bike Chevy V-8, \$30. (with hardware) Warn Winch, \$200.00. With jeep mounting bracket. \$50. Phone 258-0465.

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WIT SUIT FOR SALE, Prismo "Aqua Blue" spring suit, men's small, asking \$45. Contact Mark, Box 6614 or phone 253-1969.
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WINDSURFER 1983 ORBLEN, Fast and stable, excellent beginner and intermediate board, \$125. Call Dave, 253-4267 or 677-7459 after 6:00 p.m.
COLT AR-15, 223 caliber with 30 round clip, sling and cleaning equipment. Rarely used, excellent cond., \$350.00. A/C's TYPE II Headset, never used, \$110.00. Call 788-4923 after 6:00 p.m.

personals

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Ray comes
If you've done countless others and you've perceived life to yourself, I don't want to have YOU! Problems interfering with me, besides I didn't want that date with Kathy's friend, you forced me into it. Next time get some one else to go out with her dogs.
The "Dart" who will kick your butt
"Jungle Joe"
Why haven't you written, you hoer. Get on the ball. The Man! In on leave in PW. COMMUNIST ASAP.
The Falcon
Tues.
Did I spell it right this time? Sorry about that. Let's go camping.
Bogus! Joe
Lynette
Go camping with me on Saturday.
Max
Captain Cheriander.
It was great talking to you again, next time let's do it in person. When you come up, let me know. You know how to reach me.
Who is this it?
Purple Person.
Thanks for the recent ad and concern, but you have ever heard of too little too less?
Platinum Playboy
To "Rocky" downtown,
I would like to thank you for allowing me to record certain tapes. Remind me to buy you some hosting gloves.
Q.E.D.
Hoer.
You have been acting like a real hoerhead, now maybe without "Evelyn" you will be able to shape up.
Bob & Doug

Titus (continued from page 1)

facility receives such high marks. Every item in place and no careless activity bring work from the FAA and insurance companies looking for causes of accidents.
"Titus" says the only requirements are that the work must be done at the students pace, and that the work must coincide with whatever the coursework requires at that particular time.
Another interesting point made

by Titus is that with the conditions use the aircraft at Embury-Idle undergo, many of the major aor firms use the University as a development area for their products. With the required hours racked up in a continuous and consistent manner, the components may go through a life cycle here 4 to 5 years faster than at the hands of a "week-end" flyer.
Even though Chandler Titus seems perfectly at home in his shop, and he may pass off the

award he has received, he is quick to point out that the University has made the award possible.
The award reflects not only on the person, but on the environs in which he works. Titus says this is only possible with the backing he gets. Accordingly, he states that the directors now are "The best we've ever had". So while he remains up for the National award, think of the quality he brings out, with or without it.

Sigma Pi (continued from page 1)

became an International Social Fraternity. We are now known as Sigma Pi Fraternity International. This was a great accomplishment for us when we reflect back on our meager beginnings. Sigma Pi originated in the small town of Vincennes, Indiana on February 26, 1879. We started with just four young men and have grown to become the eleventh largest Social Fraternity in the entire free world. We are very proud of our history and hope that as a brotherhood we will continue to grow.

On Saturday, October 13 the brothers and pledges of Sigma Pi held its first fund raiser of the semester. The car wash was held at the Central Bank on South Ridgewood Avenue. The car wash, which was a tremendous success, gained the much needed funds for the acquisition of the fraternity's new house. This was only the first in a series of fund raisers planned for the Fall Semester. Please watch for information on upcoming events.
On the sports scene, Sigma Pi's highly rated flag football team

was idle last week, however, our newly formed volleyball team made its debut last week teamed against Air Force One. We put up a strong fight, led by team captain Peter Matalone, but our more experienced opponents out scored us. One of many highlights in the game was the accurate serves of Ron Przyucha, which accounted for many of the teams points.
Sigma Pi as a whole was glad to have played a part in the I.F.C.'s decision to change from "Kil-A-Keg".

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NASA: Project Mercury

By Jim Banke

(Authors note: This article covers the period of time many of you have seen featured in the movie *The Right Stuff*. Although very entertaining, the movie took liberties with many events. You should read the book, *The Right Stuff* by Tom Wolfe and *We Seven* by the Mercury astronauts for a more accurate and interesting account of that time.)

In October of 1958, the newly formed NASA had two primary goals: The first limited all space activity to peaceful purposes that would benefit all mankind. The second said that if our national security or general welfare could be protected or improved by aerospace activities, "adequate provision" should be made to achieve that goal. In the late 50's our national security felt threatened by Sputnik. Russia's large satellites and powerful rockets were not helping our general welfare either. Another blow to national prestige happened on September 3, 1949 when the Russian Luna 2 impacted on the surface of the moon. The Soviet Union had made considerable progress in space and they boasted of sending a man up next.

Since neither superpower had orbited a man yet, the United States felt that this might be a chance to catch up in the space race. Proposals for accomplishing this were officially made on October 5, 1958 just 4 days after NASA began operating. In December 1958 NASA announced that its first manned space program would be named Project Mercury. Mercury was designed to place a man into Earth orbit, test his abilities to work and live in weightlessness, and then return him safely home. The project would initially use the Army/von Braun developed Redstone missile for sub-orbital ballistic flights, and the Air Force ICBM Atlas for the later orbital missions.

To return a man safely from orbit, re-entry techniques had to be developed and refined. The shape of the space suit used a large blunt end that would help spread out the heat of re-entry caused by friction with the atmosphere. The heat would be further dissipated by a new ablative heat shield made of hard rubber-like material that partially burns away carrying the heat of re-entry with it. This process was originally created for nuclear warheads, but would now protect a man returning from orbit.

There were other areas of concern that needed addressing before a man went into space. Such things as space suits, guidance systems, recovery techniques, fuel-cells, and launch procedures had to be developed, sometimes from scratch. During this development an old concept found a new home in the space program and that was the idea of

redundancy. Everything had a double or back-up, and often there was a third back-up included as well. NASA was wise to adopt this idea as it often saved missions, and even saved lives.

The hardware was in development, but who would be the men to go into space? Almost any individual who possessed the makings of "The Right Stuff" could qualify, but the actual final motivation for selecting astronauts was the need for technical competence. The chosen few would help design our space program from the beginning. They had to have the engineering and technical background in order to maximize the efficiency of their involvement. Test pilots seemed to have the background NASA wanted all wrapped up in one type of man. Through a series of tests and requirements, an initial group of 308 pilots were reduced to the seven original Mercury astronauts that were announced to the world on April 9, 1959. For the record, our first group of astronauts were: Navy Lieutenant Malcolm Scott Carpenter, Air Force Captain Leroy (Gordo) Cooper, Marine Lieutenant John H. Glenn Jr., Air Force Captain Virgil I. (Gus) Grissom, Navy Lieutenant Commander Walter M. Schirra Jr., Navy Lieutenant Commander Alan B. Shepard Jr., and Air Force Captain

The immediate popularity of 'The Astronauts' was unbelievable. They were thought as our courageous boys who would put their life on the line to do battle with those Russians.

Donald K. (Deke) Slayton.

The immediate popularity of "The Astronauts" was unbelievable. They were thought of as our courageous boys who would put their life on the line to do battle with those Russians. It was one man representing a whole nation of pride and determination to be number one! Tom Wolfe called this the idea of single combat, and I think it accounts for most of the craziness that followed the original seven.

As the decade of the 60's began, the Russians wasted no time in doing it to us again. The Soviet Union had said it would launch a man into space, yet they wouldn't say when. This secrecy was always present, and it spread quite a few rumors. Even Herman Oberth, the German rocket scientist, said early in 1960, "I have known for months from American intelligence reports that Russia tried to launch a manned space satellite near the end of 1957 or the beginning of 1958." Oberth went on to say that the Soviet Union lost a man named Alexei Leonov when the rocket he was in failed to achieve orbit. Until the day when the Soviet Union tells all, such stories will have to remain

stories.

When Russia is successful, the world hears about it! On April 12, 1961, cosmonaut Yuri Gagarin made one orbit of the Earth in his Vostok space craft.

He was impressed by the beauty of the world from orbit, and tested his ships systems. After landing he was hailed as the world's first true space hero. Tragically, Yuri Gagarin was killed in a plane crash on March 27, 1968. He never lived to see anyone finish the race he had started with his flight.

NASA wanted to beat Russia into space with at least a sub-orbital flight. The new Kennedy administration wanted a "guarantee of success before allowing the first flight. With the Russian triumph of Gagarin, Kennedy decided that it was not his place to decide when flights should occur. Giving NASA the green light to proceed when ready, the United States entered the manned space race on May 5, 1961. Alan Shepard aboard his Mercury capsule Freedom 7 rocketed to an altitude of 116 miles, and travelled 300 miles downrange into the Atlantic. Shepard was weightless for 5 minutes and tried maneuvering his ship one axis at a time. During re-entry, the ablative heat shield worked perfectly keeping Friendship 7 cool as Shepard pulled 11.6 G's. The flight lasted the whole

that America could launch a man into space and then return him home. President Kennedy later honored Shepard with the NASA Distinguished Service Medal.

Excited by Shepard's flight, and with the "Go" from his advisors, President Kennedy made a dramatic request to a special joint session of congress on May 25, 1961: "Now is the time to take longer strides—time for a great new American enterprise—time for this nation to take a clearly leading role in space achievement, which in many ways may hold the key to our future here on earth... I believe that this nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to the earth. No single space project in this period will be more impressive to mankind, or more important for the long range exploration of space; and none will be so difficult or expensive to accomplish."

Kennedy pointed us to the moon, and he gave us only 9 years to get there. This was the kind of challenge that made the United States great. NASA swung into high gear.



SEVEN ORIGINAL ASTRONAUTS-The National Aeronautics and Space Administration's first seven astronauts, selected in April 1959 for the Mercury program, are standing on the flight line in front of an F-106 aircraft. They are, left to right, M. Scott Carpenter, L. Gordon Cooper, Jr., John H. Glenn, Jr., Virgil I. Grissom, Walter M. Schirra, Jr., Alan B. Shepard, Jr., and Donald K. Slayton.

Army (continued from page 8)

These students won scholarships on their own merit from their previous GPA and their future potential. Their income or their parents income had no effect on their scholarships. These students should be congratulated for their efforts.

Last year Army ROTC had more scholarships to award to students than applicants. All of those students who applied for scholarships received a scholarship if they qualified. Qualifications for a scholarship require the student here at E-RAU to be enrolled in a 4-year program, be a U.S. citizen, have at least a 2.5 GPA (except Aeronautical Engineering which requires a 2.3) and pass a physical examination.

The scholarships Army ROTC awards to students pay for all tuition and 300 fees, all flight courses required for your degree, a flat rate for books (approximately \$25 to \$35 per trimester) and a tax free monthly allowance of \$100. Army ROTC courses can also be applied towards your degree.

Upon completion of Army ROTC, you will receive a commission as a Second Lieutenant. You won't have to go through the hassles of job hunting, interviews and writing resumes. You'll have a job or a career, however you choose upon completion of your degree. You will also receive a salary which is competitive with civilian industry and service benefits which include:

Free medical and dental care, 30 days vacation during your first year in service, the Post Exchange (PX) which allows you to save 20 percent to 30 percent off retail prices and use of the Commissary which can also save you approximately 20 percent off of

grocery items. As a service member, you can use the recreational facilities, which include gyms with basketball courts and weight lifting equipment, racquetball and tennis courts, golf courses, ball fields (for football, basketball and soccer) and swimming pools. Most posts have recreational centers which include bowling centers, an arts and crafts program, auto craft shop, and a woodworking shop. Some of the clubs at most Army installations include a flying club, skydiving club, rod and gun club, hunting club, and an archery club. Other Army facilities include educational centers, libraries, youth centers, facilities to rent boats, house trailers and camping equipment.

Besides all of these benefits, as an officer in the U.S. Army, you'll earn the respect of family

and friends and gain the satisfaction of serving your country as a leader.

You'll receive valuable technical competence, executive and management skills, assume important responsibilities, and gain the kind of practical experience you need to help you succeed as an Army officer, and later in your civilian career.

But the greatest reward for completing the Army ROTC program and becoming an officer is a personal one. You set a goal for yourself and you meet it. You made the grade, and it's called second lieutenant.

If you have any questions concerning scholarships or the Army ROTC program please contact Major Fitzgerald in M-building or call extension 1173. Army ROTC also has flight slots available.

Voters (continued from page 1)

ambitious student voter registration project in history," boasts Kirk Weinert, publications director for M-FIRC, which is coordinating the combined student vote movement.

Confusing and often antagonistic local election laws have hindered registration efforts on some campuses, and logistical problems sometimes have muddled organizers' abilities to coordinate the vote drive on a national level.

Nevertheless, more students probably are registered now than for any other election, Weinert speculates.

Students will vote on issues, not people, M-FIRC's Weinert says.

Consequently, "the next big push is to educate the voters on the issues and why it's important for them to get out and vote."

Air Force (continued from page 8)

school and its faculty. Then the cadets will meet the Detachment cadre for lunch where they will be able to ask any questions they have about the Air Force. Finally, after lunch, the tour will move

to the airport where the cadets will tour the tower and a few static displays of aircraft.

Air Force ROTC is always on the move to try to keep abreast of all that is going on in the detachment.

What do these universities have in common?

Duke
Purdue
Johns Hopkins
American University
Washington and Lee
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