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## Avion 2007-07-03

Embry-Riddle Aeronautical University

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## ERAU recycling needs major improvement

Mijeong Yoon  
Editor-in-Chief

The three main parts of the waste reduction program are Reduce, Reuse and Recycle. One of the biggest push to recycle is the international alarm to conserve and save energy. It usually takes less energy to make something from recycled materials than to make something new from natural resources. Reusing materials reduces the need to obtain new materials. According to earth911, recycling is taking a product or material at the end of its useful life and turning it into a usable raw material to make another product.

Embry-Riddle has been trying to reduce its energy usage, which is the main reason for the four-day class week this summer. Yet their attempts to save energy by recycling has been overlooked.

As a university, Embry-Riddle does participate in a recycling program, but does not utilize it. This standard program started in Fall 2002. Some of the changes included adding recycling bins to the University Center cafeteria. This included bins for plastic, glass and cans. Unfortunately, this was an inadequate attempt because the bins are not big enough to accommodate the waste produced by the students. In addition, the plastic to-go containers are recyclable, but most students are unaware of this. There are also several totes for recycling in the housing buildings, but they remain inconsistent because different floors have different collection bins. In the offices and copy rooms, paper is recycled, which is helpful but whether it is actually recycled by our facilities staff is still unclear.

Granted, the program has made a steady progress and the recyclable materials are picked up every week, according to the Waste Management Facility of Volusia County. Unfortunately, if there is any trash in the bins, WFF staff is required to trash the entire lot as required.

There are tons of online information dedicated to teaching about how, why and what everyone can do to reduce waste and recycle effectively. In fact, the recycling program that ERAU uses has evolved to be able to recycle just about everything. As the waste is reduced, there is less need to build new landfills, which are very expensive. When waste is disposed of or recycled properly, there is less pollution and litter to harm the wildlife and the environment; and people feel better that they are helping to protect the environment.

Volusia County's Solid Waste Division is big promoter for residents and businesses to recycle. The recycling initiative "starts from the curve... you can't recycle anything until it's separated." The division is handling its program as an entrepreneurial company with private and public contracts with various parties. According to Joe Grusauskas, the Solid Waste Director, "[Tomoka Landfill] has one of the leading recycling program in the state of Florida."

The many services provided are typical household garbage disposal, construction/demolition debris, paint exchange, woody waste reuse/recycling, yard waste, appliances (white goods) and tire disposal. In fact, Grusauskas' division provides one of the

“ [ERAU's] attempts to save energy by recycling have been overlooked.

-MIJEONG YOON

most efficient solid waste collection, reduction and disposal services available.

Florida law has also banned disposal of appliances and whole tires. However, the Tomoka Landfill can haul appliances, as well as tires for recycling and proper disposal. They can even be brought to the landfill for free recycling during the weekends. The Household Hazard Waste collection facility is open to residents every Sunday for used paint exchange, used chemical exchange, purchase of electronics and to recycle used oil.

Unlike some counties, Volusia County does not tax for garbage. Residents and businesses are required to pay a disposal fee but recycling is free. The incentive is to reduce waste by recycling which saves the residents and businesses money in disposal and helps to encourage recycling.

"Is the school going to save money by recycling? Yes, because they don't have to pay [as much] for disposal," said Grusauskas.

The division also tries to self-sustain itself by reusing materials available within the landfill as it grows. According to Grusauskas, "one of the most aggressive recycling [programs] is the wood recycling program" because all the wood is

ground to reusable mulch that are used as a natural bio-filter over the landfill to trap the odor and it is also available to residents year-round. Roofing materials collected from the construction/demolition debris is separated and broken down to be used to build roads instead of buying rocks. The sludge from the sludge processing plant, operated by N-Viro Corporation, is used to fill ditches. Also, because Daytona Beach is a tourist town, there is a lot more grass on the landfill than others to make it more visually appealing since the airport is about 2.5 miles away but it also helps with erosion.

New technologies are utilized to make the facilities more resourceful and better protection for the environment. The Class I landfill is equipped with a Methane Recovery Plant that provides energy usable in about 3,800 homes. The liner system under the disposal cells are constructed with High Density Polyethylene material that is able to stretch 600 percent its original size to prevent groundwater leaching.

Overflowing leaching water is collected to be treated through the monitored water filtration system which is 98 percent effective. That means, the water cannot be used in households, which are 99.9 percent effectively treated, but are routed back to the grass wetlands for watering. Storm-water is monitored and pumped through a natural cleansing process to prevent hazardous contamination.

The Regional Recycling Facility located at the landfill is a contract operation by G.E.L. Corporation. The facility is set up to handle mixed paper including cardboard and magazines and containers made of aluminum, steel, glass bottles and plastic coded one through seven.

"The trick is to get everything separated. If it's not separated, it goes to the hill and we crunch it," said Grusauskas. If garbage is with the recycling material, the entire load is treated as garbage. All containers are asked to be rinsed, especially that used to hold different chemicals. On the plus side, 98 percent of everything that comes into the facility is recycled.

According to *the Avion's* sources, the University is not exploiting these remarkable services.

Other ways to reduce include donations to thrift shops, stop junk mail by mailing Mail Preference Services or going online and reading this guide: <http://www.obviously.com/junkmail>. For more information about the Volusia County's program, visit [www.volusia.org/recycle](http://www.volusia.org/recycle).



MIJEONG YOON/AVION

## Richard Heist named new provost



PHOTO COURTESY WWW.ERAU.EDU

Press Release  
Embry-Riddle

Embry-Riddle Aeronautical University is pleased to announce the selection of Dr. Richard H. Heist as Provost and Senior Vice President. He was also appointed a Professor of Engineering. He started on July 1, 2007.

At Embry-Riddle, Dr. Heist will oversee all academic matters, including the appointment, evaluation, management, and promotion of faculty; the evaluation and development of curricula; and the growth of scholarly research. He will also establish and maintain the quality of university wide academic activities, ensuring accreditation compliance and sound academic policy. Dr. Heist will work with the president, other university officers, and faculty to provide strategic direction for the university.

"Dr. Heist brings a wealth of experience as an academic and university administrator, and I know that he will contribute greatly to Embry-Riddle," said Dr. Johnson. "His experience as Dean of Engineering at Manhattan College will be valuable as he provides leadership for the academic mission of our university."

Dr. Heist joined Manhattan College in Riverdale, N.Y., in 2000. In addition to serving as the Dean of the School of Engineering, he was also the Director of the Nuclear Laboratory and a Professor of Chemical Engineering. Previously he spent 26 years at the University of Rochester in Rochester, N.Y., where he was the Associate Dean for Graduate Studies for the College of Arts and Sciences and the School of Engineering and Applied Sciences as well as a Professor of Chemical Engineering.

Dr. Heist's wife, Molly, is a registered nurse. Their daughter, Amy Gibson, and her husband, Matthew, live in Morocco, Ind.

"Molly and I are both pleased and excited to be members of the Embry-Riddle family," Dr. Heist said. "Embry-Riddle has the reputation of being the best in the world at what it does, and I am proud to be working with a great team of faculty, staff, and administrators in helping to shape the future of the University."

## ERAU hosts Summer Institute

Press Release  
Embry-Riddle

Embry-Riddle Aeronautical University and its College of Engineering and College of Arts and Sciences hosted the 31st annual SECME Summer Institute at the university's Daytona Beach campus June 23 through July 1, 2007.

The Summer Institute will bring together more than 200 educators, administrators, parents, and students at the K-12 levels to receive innovative STEM (science, technology, engineering, and mathematics) professional development.

"Embry-Riddle is excited about hosting the Summer Institute," said Dr. Christopher Grant, College of Engineering Associate Dean for Undergraduate Programs and Chair of the Freshman Engineering Department. "The program's theme, a launch pad for the next generation of explorers, mirrors the focus on aviation and aerospace that has distinguished Embry-Riddle for more than 80 years."

“ Embry-Riddle is excited about hosting the Summer Institute.

-CHRISTOPHER GRANT

SECME is a pre-college alliance that links engineering universities, school systems, and corporate/government investors. Its mission is to increase the pool of historically underrepresented, underserved, and differently abled students who will be prepared to enter and complete post-secondary studies, spurring the

growth of a diverse and globally competitive workforce.

SECME's name at its founding in 1975 was an acronym for Southeastern Consortium for Minorities in Engineering. In 1997, the organization changed its name to SECME Inc. and was chartered as a nonprofit corporation.

“ The program's theme, a launch pad for the next generation ...

-CHRISTOPHER GRANT

The SECME Summer Institute at Embry-Riddle includes an Aviation and Aerospace Academy, a Parent Mini-Academy, and an Education Stakeholders Forum. Among those attending will be National Student Program Mousetrap Car Competition finalists at the middle-school and high-school levels and their chaperones, as well as a representative of the new class of college-bound SECME/ExxonMobil State and Overall Scholars.

Among many other activities, teachers may attend presentations on Engineering the Future and a mini-TeachSpace workshop conducted by Embry-Riddle professors on the topics of Human Factors in Space Exploration and Rocket Propulsion.

Besides Embry-Riddle, the SECME Summer Institute is sponsored by the ExxonMobil Foundation, Lockheed Martin, John Deere, and Dupont.

For more information, contact Dr. Grant at (386) 226-6665 or [christopher.grant@erau.edu](mailto:christopher.grant@erau.edu).

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By students, for students.

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## New addition to baseball

 Allison Smalling  
 ERAU Rec. Sports Dept.

Embry-Riddle Athletic Director Steve Ridder announced Tuesday that Randy Stegall will take over as the head coach of the Eagles' baseball program. Stegall will be the third coach in ERAU baseball history and takes over from Greg Guilliams who accepted the head coaching job at Valdosta State earlier this season.

"I'm humbled to have been considered for the job and even more humbled that I was offered the position," Stegall said. "It's a great position and after being there for the interview, I know there are a lot of great people at Embry-Riddle. I'm looking forward maintaining the program's success and bringing quality kids into the program as they've done in the past. Hopefully I'll just be able to take the baton and run with it."

"Coach Stegall is extremely qualified and one of the most talented young coaches in the country at the NAIA level," Ridder stated. "His accomplishments speak for volumes about his tremendous success as a player and a coach. Coach Stegall understands our mission and the critical balance of competing for

championships yet, more importantly, preparing young men for life after baseball. I am really excited about his abilities as a teacher, leader and role model for our student-athletes. He is the right fit for our program at this time and will be a strong addition to the Embry-Riddle family."

"I am extremely grateful for the quality work and dedication that both Greg and Todd Guilliams gave to our program for the past 16 years," Ridder added. "They not only built the Eagles baseball program into one of the most successful and highly respected programs in the NAIA, they have been such a positive impact in the lives of the men who played for them."

Stegall comes to Embry-Riddle from Indiana Tech where he spent two seasons as the Warriors' head coach, compiling a 69-44-2 overall record. In 2006, the Warriors were 29-29-1 overall, were third in the Wolverine-Hoosier Athletic Conference and finished second in the Region VIII tournament. The 2007 season saw the Stegall lead the Warriors to a 40-15-1 record and the WHAC regular season and tournament titles, earning him league Coach of the Year honors. Indiana Tech was ranked also ranked 20th in the final NAIA poll.

Prior to coaching at Indiana Tech,

Stegall spent five years as the top assistant coach to Woody Hunt at Cumberland in Tennessee where he worked primarily with hitters and infielders. During his time at Cumberland, the Bulldogs won three conference championships, two regional titles, two super regional titles and made two straight trips to the Final Four at the NAIA World Series. In 2004, the Bulldogs defeated Oklahoma City 10-3 to capture the school's first NAIA World Series crown.

Stegall began his collegiate career at the University of South Carolina where he earned honorable mention All-Southeastern Conference honors in 1995.

After two seasons with the Gamecocks, Stegall transferred to Cumberland (Tenn.) where he set school single-season records in hitting (.479) and finished fifth in the nation in runs scored (87) hits (113) and total bases (201) as a senior. His performance that year earned him Mid South Conference and Regional Player of the Year honors. He was all named first team All-American and was the runner-up to the NAIA Player of the Year.

Stegall was drafted by the Cincinnati Reds in the 25th round of the 1998 Major League Baseball draft. During his four-year profes-

sional playing career Stegall played for the Billings Mustangs, Clinton Lumberkings, Rockford Reds, Dayton Dragons and the Chattanooga Lookouts.

In 1998 he earned All-Pioneer League honors after finishing ninth in the league in batting (.316) and hits (83). In 2000, he led the Midwest League in doubles (43), which was second in all of minor league baseball, and tied for fourth in batting average (.311), the second best among all Cincinnati Reds minor leaguers. He was also selected to the Midwest League All-Star game in 2000.

Stegall is a native of Orlando, Fla., where he played high school baseball at Lake Brantley High School, and was just recently inducted into the Lake Brantley High School Athletic Hall of Fame. He earned his bachelor's degree in History/Geography from Cumberland in 2002 and a Master of Science degree in Social Studies Education from Nova Southeastern.

"I'm excited about returning to Central Florida and being around people I'm familiar with and learning from the coaches that are already there," Stegall said. "I'm also looking forward to working under Coach Ridder and learning about how to run a successful program."

Get to Know: Linda Straubel  
Assistant Professor Humanities and Social Sciences

**Country/State you are from** I was born in Massachusetts and raised in Rhode Island.

**Why did you take this position:** In general, teaching literature and writing at the college level is something I've wanted to do all my life, which is why I got my Ph.D. As most people with Ph.D.'s in English do, I sent out many applications for a tenure-track position. I was intrigued, however, by the fact that Embry-Riddle is an aeronautical university, as I've had a life-long interest in flying myself and that helped. Besides that, I've had it with winter and wanted to be someplace south of the Mason-Dixon. There is also the fact that they offered me a job; who could turn Embry-Riddle down? It's a very cool place to work. Finally, I couldn't know this when I first accepted the position, but now I can't imagine leaving. The department I work for is great; I'm surrounded by dedicated teachers, supportive colleagues and great friends. [A shout-out to my peeps!]

**What did you do before coming to Riddle?** Just before coming here, I taught as a full-time lecturer at a community college of the Wisconsin University system. Before that, I was a TA and an adjunct professor in Milwaukee while I worked on my graduate degrees.

**Family/children?** I have no children. I live very happily with my husband, Dave, and our lovely cat, Baby Doll. [The name was kind of an accident and my husband can, in no way, be held accountable for it!]

**What scares you?** Failure, I suppose. Maybe pain, too.

**Most embarrassing moment** My most embarrassing moments are too weird or embarrassing to share. However, I will say that, on a day-to-day basis lecturing in front of students, you become very aware of your fallibility. There are times when I make mistakes and students call me on them. This has always been so embarrassing to me that I've resorted to making a game of offering students extra credit for spotting my mistakes. This way, it's a win for them, I know they're paying attention and I don't have to get defensive about the whole thing. Whatever embarrassing things happen to you up there in front of people, it's your attitude towards them that matters the most. If you can avoid being defensive, you can learn from your mistakes; life goes on.

**Favorite band/musical artist:** My taste in music is pretty eclectic. I love the singer-songwriters with pithy yet poetic lyrics. For my money, for instance, Paul Simon is the best lyricist this country has ever produced. The Beatles are perennial favorites, along with the Stones, of course, Dave Matthews, Green Day, REM, U2, Sheryl Crow, and Red Hot Chili Peppers, to name a few. It depends on my mood. Sometimes I need jazz, and then it's got to be Dave Brubeck, Bob James, Earl Klugh or Bobby McFerrin. If I'm in an R&B mood, it's Robert Cray. If I had to pick one favorite, however, it would have to be one of Mitzuko Uchida's recordings of Mozart's piano sonatas; she's exquisite.

**Tattoos or piercings** Let me just say this about that; I'd love to have one small, discrete tattoo of a green rose - it's a symbol for creativity from James Joyce's A Portrait of the Artist as a Young Man. However, I haven't worked up the nerve, yet. See answer # 7, regarding "pain."

**First thought when you wake up:** Is Dave up, yet? [He's my husband,] then, am I teaching today? What's happening with the Arts & Letters Committee? Is it raining, I hope? [This last has been on my mind a lot lately, what with the long-running drought that dried up my pond and the recent brush fires that got a little too close for comfort.]

**Cell phone ring tone** That would be some generic thing that came with the phone. I haven't been ambitious enough to find anything more personal, yet. In truth, I've only just gotten around to getting a cell phone this past March.

**Thing you hate most about Daytona Beach** That would have to be the bad driving . . . really, really, awful, life-threatening stuff, people blowing stop signs and forgetting what red lights mean, changing lanes without looking, no one using turn signals, all that. Most of us are OK, but the rest come in two "flavors": fast-and-stupid and slow-and-stupid. Other than that, it's OK; we could do with a little more culture, I guess.

**Favorite vacation destination:** There's a little island off the coast of St. Thomas called Water Island. When I was there years and years ago, there were exactly two motels and one hotel and a few truly private beaches. I'd love to go back there some day. The Grand Canyon is the other place I have to see again before too long. Truly sublime.

**Something you must do or accomplish before you die:** I must get my novel published and I must finish my pilot's license.

**What's in your freezer right now?** Well, since I'm always going on diets, I'm sure there's some Lean Cuisine in there. [I probably shouldn't tell you that we finished off the Klondike bars last night.] Other than that, whole bean coffee, since I'm a coffee fiend and grind my own and keep the beans in the freezer to keep them fresh. There are probably also a few frozen breaded chicken patties, some Gorton's fish filets and some bake-to-rise pizzas.

Since my husband and I are both pretty busy, we tend to stock up on stuff that you can "cook" without too much effort.

**Favorite movie:** Actually, I have two favorites: my all-time favorite film is Sir Laurence Olivier's Richard III. I'm fascinated by villainy and Shakespeare's quintessential villain played by the quintessential Shakespearean actor is an irresistible combination. My all-time favorite movie, however, would have to be Amadeus, with music by Mozart and a cast including F. Murray Abraham and Tom Hulce; what a treat. I just finished watching it again for the tenth time or so recently. So, it's not historically accurate. This is art, not history . . . see answer #29 on "art" and "truth."

**Store you would choose to max out a credit card:** Lowe's probably. I'm more likely to spend all my money on stuff for the house than clothes, since I'm always doing something to redecorate. Clothes shopping is a major pain and I do it only when absolutely necessary.

**Last movie you saw in the theater:** It's been awhile, so I'm not positive, but I'm going to say American Beauty, which was wonderful. I love movies, but I mostly watch the DVD versions at home.



PHOTO COURTESY WWW.ERAU.EDU

**The Simpsons, King of the Hill, South Park, or Family Guy:** I've been a fan of all these, except for King of the Hill. I gave up on South Park when they kept insisting that a talking piece of crap is funny. Mr. Hankie never said anything even vaguely amusing that I can recall; besides that, the voice is egregiously annoying. I still like The Simpsons, but I think Family Guy is just a little edgier and a little weirder.

**Crest, Colgate or . . . other:** Colgate, I guess. Although I'd have to check to be sure. It's not something I pay that much attention to.

**Favorite holiday:** That would be Christmas. I love the beauty of our decorations and buying presents and wrapping them. It's a wonderfully generous thing we all do, "making Christmas," despite how busy we all are.

**Job you would have if money was no object:** If I couldn't be a professor, I suppose I could write full-time or go into acting. Singing would be fun, too. Reading novels and reviewing them would be cool.

**Favorite food:** Other than ice-cream? Like my taste in music, my food preferences are all over the place. I love Italian, especially Fettuccini

Alfredo, when I'm not on a diet, of course. I also love both Chinese and Japanese food, such as sushi, and ridiculously fatty French food, like paté de foie gras . . . and chocolate, of course. Every once in awhile, however, I get a craving for something truly funky, like sardines on Saltine crackers.

**First car:** A little gray Toyota with lots of miles on it.

**What do you do on the weekends?** During the semester, I usually have essays to grade. Other than that, I read, mostly, spend time with my spousal unit, watch some TV, or work in my garden, but not too much . . . it's so hard on the back. If I really have time to burn, I'll find the latest Stephen King novel - I started Lisey's Story last week, since my husband and I had to fly to Wisconsin on family matters. I had time to read most of it on the plane. It's pretty good --- not his best, but definitely readable. Every so often, I'll do something to make my house more mine, like paint or put down tile or some other flooring. During Summer B, when I'm not teaching, I've got about a dozen unfinished projects around the house I'll be working on, along with two major writing projects I need to finish.

**Favorite airplane or rocket:** My sentimental favorite is still the little Cessna 150's I took my flying lessons in. I know they're homely little pups, but they're also very friendly and great to learn on. Eventually, my husband and I plan on building an RV 6A or 7A.

**Song you would sing for karaoke:** Probably something by Paul Simon, such as "Spirit Voices" from his Rhythm of the Saints album. Part of it is in Portuguese and it would be cool to learn that.

**Quote:** Pablo Picasso said, ". . . art is not truth. Art is a lie that makes us realize the truth . . ." Isn't that great? I also love Shakespeare's, "We grow to hate what we have oft feared," among about a thousand other wonderful little insights he gave us about human nature.

**One thing you want to tell Riddle kids/advice:** "Keep your eyes on the prize," to quote a great man. Getting a college degree is difficult but well worth it. As this Summer A drew to a close, as a matter of fact, various pieces of advice began to emerge on their own and I shared them with my HU 335 students. Here's one of them: There are alarmingly high statistics on depression among young people. At the same time, older people sometimes minimize the importance of these feelings, telling the young, "These are the best years of your life." If you're in the pits of depression and someone tells you this, I told my students, nod quietly then walk away and find someone else to talk to. Under those circumstances, those words are toxic. Find someone to talk to who'll take your depression seriously. Get professional help, if you need it; there's no shame in that. This is especially important for American males to keep in mind, since we tend to expect too much self-reliance from our young men and they internalize that expectation, sometimes with horrific consequences.

## ERAU names new VP of Research

Press Release

**Embry-Riddle**

Embry-Riddle Aeronautical University has promoted Christina Frederick-Recascino to vice president for research and institutional effectiveness. She also was appointed as a professor of human factors and systems. Both positions take effect immediately.

In her new role, Frederick-Recascino leads efforts to increase the university's funded research activities, graduate enrollments, and graduate programs. She also oversees strategic planning, institutional research, accreditation efforts, and the university's devel-

opment of a 77-acre research and technology park focused on aviation and aerospace.

"Tina will continue the excellent work she has done already to promote research at Embry-Riddle and to attract top-caliber researchers to our outstanding faculty," said John P. Johnson, president of the university.

Since joining Embry-Riddle in 2000 as an associate professor of human factors, Frederick-Recascino has served as assistant dean of arts and sciences, assistant provost for research and graduate studies, and interim provost.

Frederick-Recascino is the author of more than 30 research publications, four book chapters, and more than 50 regional, national, and international conference presentations. She is active in a number of aviation and aerospace-related organizations including

American Institute of Aeronautics and Astronautics, Association for Unmanned Vehicle Systems International, Florida Office of Women in Higher Education, Florida Research Consortium, National Safe Skies Alliance, and Women in Aviation.

She earned a Ph.D. in psychological development at the University of Rochester in Rochester, N.Y., and a B.S. in psychology at State University of New York, Geneseo.

Embry-Riddle Aeronautical University, the world's largest, fully accredited university specializing in aviation and aerospace, offers more than 30 degree programs in its colleges of Arts and Sciences, Aviation, Business, and Engineering. The university educates more than 34,000 students annually in undergraduate and graduate programs at residential campuses in Prescott, Ariz., and Daytona Beach, Fla., through its Worldwide Campus at more than 130 centers in the United States, Europe, Canada, and the Middle East, and through online learning. For more information, visit [www.erau.edu](http://www.erau.edu).



PHOTO COURTESY WWW.ERAU.EDU

“  
[She] is the author of more than 30 research publications ...  
”

-EMBRY-RIDDLE

### Tonight, at the Apollo

NICOLE TITUS / THE AVION

**THE NEW RESIDENCE HALL** has been named Apollo, a name chosen from a list picked by students and staff. Other possible names included Titan, Pegasus, Atlantis, Gemini, Atlas and Zenith.

## Hizak receives NAIA 'A.O. Duer' award

Press Release

**Embry-Riddle**

The National Association of Intercollegiate Athletics announced on Friday that Embry-Riddle tennis player Mislav Hizak is the recipient of the prestigious A.O. Duer Award. The award is presented annually to a junior men's and women's student-athlete in any sport who has excelled in character, playing ability and scholarship. Since 1967, the A.O. Duer Award has been presented in honor of the late former NAIA executive director Al Duer who was responsible for the NAIA's role as the first collegiate organization to be fully integrated.

Hizak was selected by the

NAIA Council of Faculty Athletics Representatives from a field of nominees who attend NAIA member institutions. Candidates must achieve a minimum grade point average of 3.75 on a 4.0 scale. Embry-Riddle will receive a \$1,000 scholarship award from Daktronics in the name of the winner.

A senior in Aviation Business Administration, Hizak is the most decorated men's tennis player in Eagle program history. The A.O. Duer Award is one in a long list of accolades Hizak has accumulated this season, including ESPN The Magazine first team All-American, ITA All-American, NAIA All-American Scholar Athlete and NAIA Region XIV and Florida Sun Conference Player of the Year. He

was also the recipient of the Arthur Ashe Award for Sportsmanship and Leadership.

Hizak went 30-1 in his third season with the Blue and Gold with his only loss coming to Oklahoma State's Ivan Puchkarov in the second round of the ITA's NCAA Division I Intercollegiate Indoor Tennis Championships. His 16-0 dual match record included a 5-0 mark in Florida Sun Conference Play, which earned him the league's Player of the Year honors for the second year in a row.

Hizak went wire-to-wire as the No. 1 tennis player in the country and he and teammate Konstantin Lazarov were rated as the top doubles team in the nation going 23-3 overall and 17-1 in dual matches.

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# For \$65 what kind of mutt do you have?

Karen Kaplan  
Los Angeles Times

The Wilson family had puzzled over their mutt Drake's distinctive behavior ever since they brought him home from the Washington Animal Rescue League four years ago.

Workers at the shelter told them the dog was a mix of spaniel and Plott hound. But his propensity to leap over 4-foot fences and herd family members as if they were livestock had them thinking border collie.

The answer to Drake's past came in the form of a \$65 DNA test that promised to scour his genes for telltale signs of the breeds in his family tree. "We were always curious as to what breeds went together to create him," Marcy Wilson said. "We just assumed we could never find out."

Not long ago, genetic testing was a rarefied pursuit used primarily to settle paternity suits, diagnose medical conditions and identify rapists and killers.

Now DNA testing has gone to the dogs. With sequencing technology becoming less expensive, dog owners are having their pets tested - and sometimes finding that unraveling the mysteries of their genetic code can be a mixed blessing.

For less money than a luxury shampoo and doggy massage, owners of *Canis familiaris* can uncover their pooch's ancestry or take an inventory of its constituent breeds. The tests can also reveal debilitating health problems and other genetic surprises.

"If you're an animal lover, you can't resist this," said Jan Lovelady, a nurse administrator in Gilbert, Ariz., who had her mutt's DNA analyzed to see which breeds were in his lineage.

Half a dozen or so dog DNA analysis companies have sprouted across the U.S., and peddle their services at dog shows and over the Internet. The companies guard their sales figures closely, but each claims to have tested several hundred to several thousand dogs.

The DNA of 400,000 purebred dams and sires has been registered with the American Kennel Club, which has required breeders to submit genetic samples since 1998.

But the rush to genetically type man's best friends has raised many

of the same concerns as the typing of man himself.

"It's one more way of codifying the American cultural belief in genes as the foundation of everything important," said Donna Haraway, a historian of science and culture at the University of California, Santa Cruz. "I find it mildly disgusting."

Then again, as the proud owner of two dogs, she added: "I might actually buy such a test."

Dog DNA tests generally fall into three categories: proof of maternity or paternity, genealogy, and identification of mutations associated with disease. Genetic tests are available for other animals - to determine the sex of birds, for instance, or the coat color that cats may pass to their kittens.

Far more can be gleaned about dogs because of their use in medical research for human diseases, including cancer, heart disease, blindness, epilepsy and diabetes. The complete dog genome was published in 2005, making it the fifth mammalian genome decoded, after humans, mice, rats and chimpanzees.

The earliest consumer tests stemmed from the American Kennel Club's attempts to ensure the validity of pedigrees for 155 breeds of dogs.

As it turned out, the DNA evidence cast a shadow on the scrupulous record-keeping that is the hallmark of elite purebreds.

When the policy was implemented nine years ago, random inspections found that 13 percent of puppies had the wrong parents listed on their pedigrees, said club spokeswoman Lisa Peterson.

Some of those cases involved legitimate mix-ups, because puppies in the same litter can have different fathers. But there were also cases that involved unscrupulous breeders falsifying information on a pedigree to boost the puppy's value.

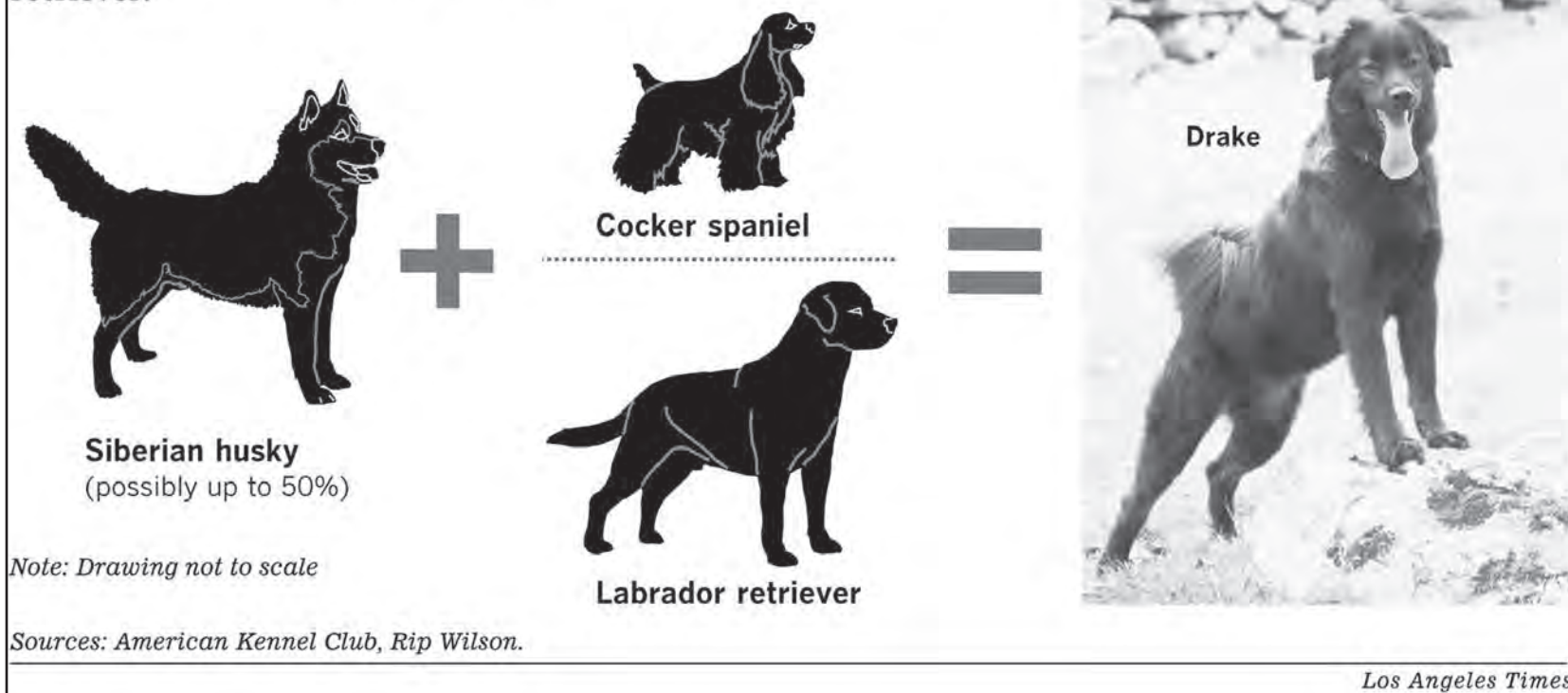
"Whenever there's a question about the parents, it raises questions about the integrity of the breeder," said Randall Smith, manager for DDC Veterinary, a Fairfield, Ohio, company that tests tens of thousands of animal DNA samples each year.

Today, the pedigree error rate has dropped to about 4 percent, according to the AKC.

For many dog owners, the allure

## Tracing the ancestry of a mutt

The Wilson family wanted to find out the genetic background of their dog, Drake. A \$65 genetic test determined that Drake was mostly Siberian husky, with traces of cocker spaniel and Labrador retriever.



Los Angeles Times

of peering into DNA stems from a simpler desire. No matter how well they think they know their dog, there is always a sense of mystery about them.

Rob and Carole Sims of Morrisville, N.C., turned to DNA to answer a question that had stumped them for years: How could their two golden retrievers - born of the same mother and father - be so maddeningly different?

Liberty was gentle, mild-mannered and easy to train; Justice was the complete opposite. It drove the Simses crazy.

Had there been a Smix-up at the kennel? Did they take home the wrong dog?

Rob Sims mailed swabs from the dogs' cheeks to a lab in Ohio that charged \$35 for each test. The results arrived 10 days later.

"As soon as you open the

report, it's crystal clear - they're sisters," he said.

The DNA results did little to explain why the sisters were so different. But it helped him to accept Justice for the dog that she is.

As the dogs have grown, he has even come to embrace their differences.

A more elaborate test was necessary to parse out the various breeds that made up Marcy and Rip Wilsons' dog, Drake.

Tests to determine various breeds examine specific points in a dog's DNA and look for signature patterns that are known to be correlated with specific breeds.

"It's just like when people say, 'Where'd your ancestors come from?'" said Elaine Ostrander, who helped develop one such test while searching for genes to study cancer in dogs at

the Fred Hutchinson Cancer Research Center in Seattle.

The result is a blood test that can detect DNA contributions from 134 recognized breeds. Mars Veterinary will begin selling it through vet offices in July under the name Wisdom Panel.

The Wilsons used a \$65 Canine Heritage Breed Test from MMI Genomics Inc. of Davis, Calif. The test looks at 96 points and can identify 38 breeds that encompass 75 percent of all dogs.

"We always thought he was a border collie," Marcy Wilson said. "If we go anywhere near the foyer of the house, he will come from whatever room he's in and try to herd us out the door."

While they waited for Drake's test results, the four family members placed \$1 bets on his true heritage. "We were all guessing border collie,

chow and lower levels of lab and spaniel," Marcy Wilson said.

They were right about the Labrador and spaniel genes, but none of them expected that the test would conclude he was more Siberian husky than anything else.

After the results came in, Rip Wilson spent hours reading up on huskies to better understand his dog's true nature.

In retrospect, said the biotech executive, the family shouldn't have been so surprised. Drake's proclivity for digging holes near the backyard azalea bushes turned out to be a characteristic husky trait.

And that's not all.

"He adores the snow - he'll just hang outside in the snow for hours," Rip Wilson said. "I never clued in on it."

## US hot dog council

Dan Zak

The Washington Post

There's a National Hot Dog & Sausage Council. It's on Connecticut Avenue in Washington. Really.

And why shouldn't there be a council devoted to hot dogs? Americans eat 7 billion during peak season, from Memorial Day to Labor Day. That's 818 hot dogs per second. Picture that. Nearly 6,000 were consumed in the time it's taken you to read this far.

Washington, while known on the elongated meat circuit for its cultivation and refinement of the half-smoke, has a notable hold on the national hot dog market. Residents of Baltimore and Washington spent a combined \$46 million on hot dogs last year, making the region third in dog consumption after New York and Los Angeles. RFK Stadium and Camden Yards placed eighth and 10th, respectively, in the council's 2007 survey of the most passionate hot dog fans in Major League Baseball ballparks (New York's Shea Stadium was No. 1). The Fourth of July is the zenith of summer's hot dog eating period: Americans will scarf

down 150 million of them that day alone.

The council's president, Janet Riley, is the self-proclaimed Queen of Wien. We asked her about alternative hot dogs. Like veggie dogs or tofu dogs or ...



"If it doesn't have meat, it's not a hot dog," Riley says firmly. "A hot dog contains meat or poultry. The USDA has standards of identity. It might be called a tofu pup, but it's not a hot dog."

## Any colder we sink

Thomas H. Maugh

Los Angeles Times

If the rocks under Los Angeles were not unusually warm, the city would rest 3,756 feet beneath the Pacific Ocean, according to Utah geologists.

Without the rocks, in fact, the only parts of the U.S. that would be above sea level would be the Pacific Northwest and the upper reaches of the Rockies, they reported this week in the Journal of Geophysical Research-Solid Earth. Previously, researchers had believed that the inherent density of rocks floating on the earth's molten core was the primary factor in determining the elevation of land masses. But new calculations show that temperature is responsible for about half the elevation of land areas, according to geologist David Chapman and graduate student Derrick Hasterok at the

University of Utah.

"Researchers have failed to appreciate how heat makes rock in the continental crust and upper mantle expand to become less dense and more buoyant," like ice floating on water, Hasterok said.

Researchers have measured the temperatures at various depths by charting the speed of sound waves, which move faster through cold dense rock.

The pair based their calculations on the relatively cold - 750 degrees Fahrenheit - crustal rock of the Canadian shield, which underlies most of that country. Rock under the U.S., in contrast, is 200 degrees to 300 degrees hotter.

If U.S. rock were the same temperature as Canadian rock, the mile-high city of Denver would be 727 feet below sea level, New York would be 1,427 feet below the Atlantic Ocean and Miami would be 2,410 feet under water.

## Segregation is possible again

Amit R. Paley

The Washington Post

This article was co-written by Bridgit Schulte.

WASHINGTON - The nation's schools, which have become increasingly segregated in recent decades, are likely to become even more racially divided as a result of this week's Supreme Court decision curtailing the use of race in school integration plans, attorneys and educational experts said Friday.

About 1,000 schools out of the 15,000 school systems in the country currently use race in some way to decide where children go to school, said Amy Stuart Wells, a professor of education at Columbia University's Teachers College. Many of those districts are expected to revamp or abandon those race-conscious policies because of the new ruling.

"We are going to see a major increase in racial segregation that will cause our children to be less prepared to live in our diverse society," she said.

A case study of how the nation's schools might respond to the decision can be found in the Washington, D.C., region, which had to abandon race-conscious policies nearly a decade ago, after

the 4th Circuit Court of Appeals struck down integration plans in Montgomery County, Md., and Arlington County, Va. Some local school systems now use income as a race-neutral method to achieve racial diversity, while others do nothing at all, a pattern experts expect to see repeated across the country.

This week's 5-to-4 decision, which echoed the 4th Circuit's 1999 ruling, struck down programs in Seattle and Louisville that sought to maintain school-by-school diversity by using race to assign student to schools. The court's four-member conservative wing said the use of race in school assignments always violated the Constitution's guarantee of equal protection, while the four-member liberal wing declared it acceptable in the two plans evaluated.

So school administrators and attorneys across the nation spent Friday analyzing the complicated controlling decision by Justice Anthony Kennedy, the court's swing vote, who said, "It is permissible to consider the racial makeup of schools and to adopt general policies to encourage a diverse student body, one aspect of which is its racial composition."

"What the government is not permitted to do," he added, "is to classify every student on the basis

of race and to assign each of them to schools based on that classification."

Francisco Negron, general counsel of the National School Boards Association, said it would take a while for school districts to figure out which policies Kennedy might find acceptable. But he expected many to consider using socioeconomic status as a race-neutral method of achieving racial diversity. About 40 school districts currently follow such policies, including San Francisco; Cambridge, Mass.; La Crosse, Wis.; and Wake County, N.C.

In Wake County, which includes Raleigh, officials created policies aimed at capping the number of low-income students at 40 percent, which has had the effect of maintaining the amount of racial diversity that existed under a previous race-conscious plan, according to Richard Kahlenberg, a senior fellow at the Century Foundation who has studied the school system.

The income diversity plan has also helped improve academic achievement, boosting test scores for low-income and minority students to higher levels than children in surrounding areas.

"These types of plans are not just a cute way of getting racial integration through the back door, they have a powerful educational

rational as well," Kahlenberg said. "And they have the added benefit of being legally bullet-proof."

Sharon Browne, an attorney with the Pacific Legal Foundation, a conservative group that supported the parents suing Seattle and Louisville, said that in addition to the lawsuits her group has filed against Los Angeles and Berkeley, Calif., that assign students on the basis of race, her foundation may also bring suit against other districts with similar policies, such as Lynn, Mass.

But Browne endorsed the Wake County plan as an ideal model for school districts to achieve racial integration without violating the Constitution's guarantee of equal protection. "Plans that use socioeconomic factors do not have the pitfalls of using race, which violates the equal protection clause," she said.

The most effective way to achieve racial diversity, however, is by taking race into account, most experts agree, and they fear that the court's ruling will accelerate the resegregation of American schools that has been going on for decades. The court's dissenting opinion, for example, noted that the percentage of white students in schools attended by the average black student actually dropped from 1968 to 2000.

## Iguanas loose weight over sex

Amber Dance

Los Angeles Times

A good man is hard to find - and for female Galapagos iguanas, the search for the sexiest mate is so exhausting that it actually might threaten their ability to survive, according to a study published Wednesday.

Female iguanas on the equatorial island of Santa Fe spend about a month checking out the available males, some of whom maintain almost constant displays of their masculine prowess. But visiting the males carries a cost - any time a suitor gets too close, a female must back away to avoid mating before she's ready.

For the study, which was published in the online journal PLoS One, researchers spent three months watching iguanas play the dating game. When a female approaches a male's territory, he will open his jaw wide, bob his head, and sidle toward her. If she doesn't back away, he'll attempt to grab her by the neck.

The males are patient - they won't pursue a female who retreats - but it nonetheless takes significant effort for the females to keep on walking away.

While the males' territories, called leks, have no food or other useful resources, they do offer some measure of protection from smaller, less desirable males, who prowl the

outskirts of the leks and might force copulation on females.

"Females are pretty much on territories all the time that they're not foraging," said lead author Maren Vitousek, a graduate student in ecology at Princeton University.

The scientists implanted small data recorders in the female iguanas to monitor their energy costs. The devices recorded heart rate and body temperature every three seconds.

Combining this data with their observations of mating behavior, the researchers determined that females could lose as much as 20 percent of their body weight avoiding sexual encounters that they weren't ready for, Vitousek said.

Females that hung out near the biggest, strongest males - thus gaining the best genes for their offspring - lost even more energy because those males approached them more often.

Lightweight females might not live through the year if the food supply is low. Particularly during El Niño years, it's hard for the iguanas to find enough algae to eat.



## Staff member calls ERAU on religious diversity

The Avion has been exemplary in airing the diversity concerns. However, a few points may have escaped the astuteness of readers and writers alike. I want to direct the readership's attention to <http://www.gallup.com/content/?ci=26611>. This article gauges nicely the kinds of prejudices that people harbor and that diversity-committed persons everywhere should rant and rave about. The pollsters asked, "Between now and the 2008 political conventions, there will be discussion about the qualifications of presidential candidates -- their education, age, religion, race, and so on. If your party nominated a generally well-qualified person for president who happened to be ... would you vote for that person?" Now here is the result: Yes, would

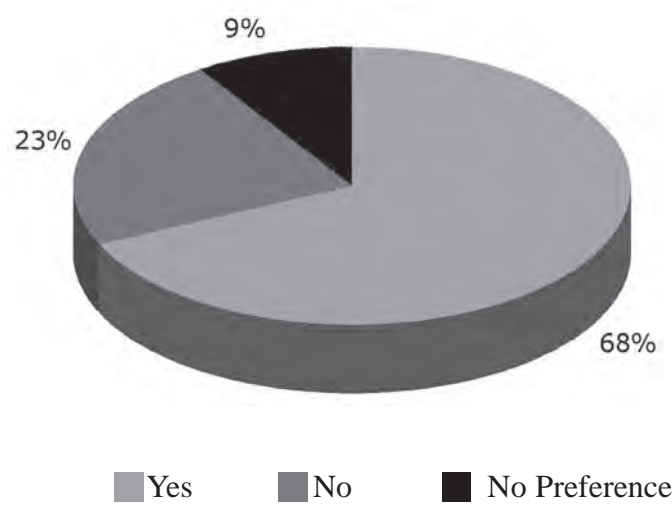
vote for No, would not vote for % Catholic 95 4 Black 94 5 Jewish 92 7 A woman 88 11 Hispanic 87 12 Mormon 72 24 Married for the third time 67 30 72 years of age 57 42 A homosexual 55 43 An atheist 45 53. Based on this poll, women do quite well in comparison to divorced people, oldsters, homosexuals, and—Heaven forbid!—atheists. The poll might have been even more interesting if one of the entries had been "Buddhist." The answer might have given some clues about how many people know that Buddhists are atheists also—albeit not militant ones. Embry-Riddle has a long way to go before becoming an institution that accepts diversity all around. I am still waiting for the day when the chaplains ask whether a collection of persons

wish to pray, rather than making the assumption that prayer is an obligation of any group of ERAU-affiliated personnel. By the way, since ERAU is a private institution, it can lawfully ask persons to attend gatherings where prayers are being spoken; however, it cannot compel people to participate in prayers. As long as no sign of dignified dissent is part of any prayer-containing ceremony, ERAU is in violation of religious diversity. I suppose I'll be long dead and gone by the time ERAU has advanced far enough to have hired a secular humanist as chaplain in addition to the four "approved" chaplaincies that are privileged with the use of a chapel on campus.

~Reinhold Schlieper  
Professor HU

## Avion Online Poll Results

The Avion asks: "Would it be convenient for you to add two school days to the Spring semester in order to have a five day weekend during Speedweek?"  
-New poll every issue at [www.avionnewspaper.com](http://www.avionnewspaper.com)



Brian Asbury/AVION

## Student Forum

The Avion asks: "If you could change anything about the campus, what would it be?"  
-Compiled by Brian Asbury and Mijeong Yoon.



**Ben Coyle**  
Senior  
AMS

"The broken water main on the west lawn."



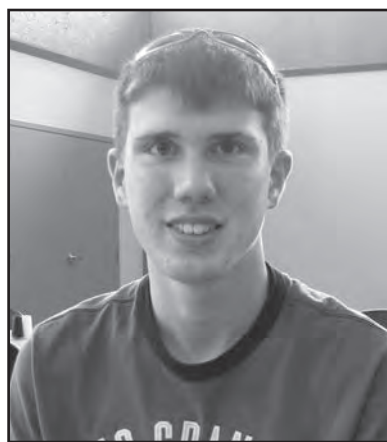
**Dustin Shiver**  
Junior  
Engineering Physics

"I would like to see a little more entertainment on campus."



**Jaimie Thayer**  
Freshman  
Aerospace Engineering

"I have not been here long enough to form an opinion."



**Bobby Shepherd**  
Freshman  
Homeland Security

"I think there should be more residential parking."



**Jessie Hunchman**  
Junior  
Aeronautical Science

"I despise the color of the buildings."



**Pedro Boaventura**  
Freshman  
Business

"I think everything is ok."

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## Mission to explore Dawn of solar system

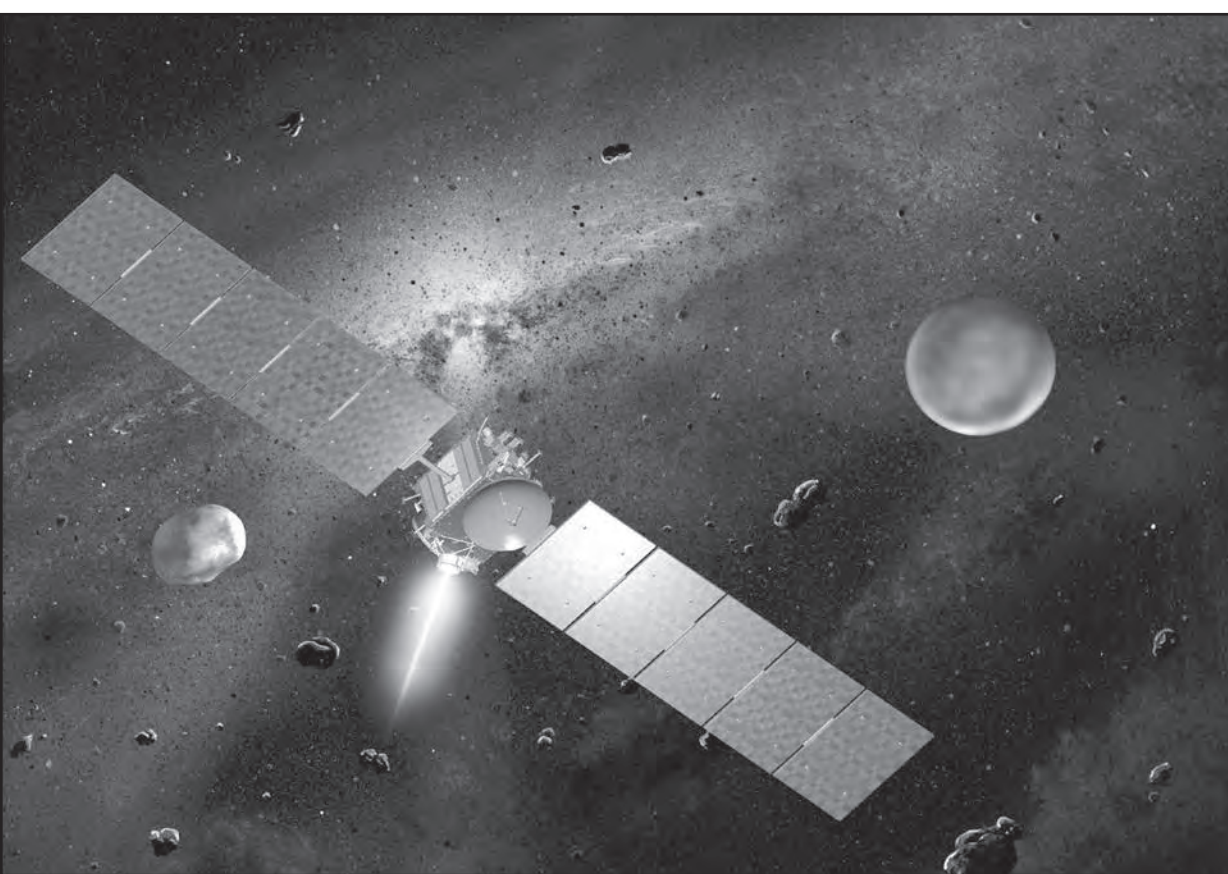


IMAGE COURTESY NASA

**AN ARTIST'S IMPRESSION SHOWS** Dawn in the asteroid belt with Ceres, right, and Vesta in the background. In reality the two largest asteroids - with Ceres recently being reclassified as a dwarf planet - are not near each other. Dawn is due to launch July 7 and carries a revolutionary ion engine for propulsion.

Ben Cooper

Space Tech. Editor

A revolutionary mission to explore the origins of the solar system is slated to get underway Saturday, though it faces some last minute hurdles that threaten to postpone the mission, possibly until September or October.

NASA's Dawn mission will use ion propulsion as its main means of transport as it attempts to become the first spacecraft to ever orbit two bodies on one trip outside of Earth. Dawn's eight-year mission takes it to dwarf planet Ceres, the largest asteroid in the solar system, and Vesta, the second largest. Dawn would arrive first at Vesta and explore the body from 2011 to 2012 before moving on to Ceres where it would arrive in 2015.

On Sunday, Dawn was still facing some last minute issues that could force its postponement. The main problem is a conflict with the most significant mission launching this year, the Phoenix Mars Lander.

Slated to launch Aug. 3, also aboard a Delta 2 from the same launch pad (but the opposite platform) at Cape Canaveral, Phoenix has just 21 days to leave Earth before the interplanetary window to Mars closes. One spacecraft cannot be on the pad while the other is launching.

Dawn has its own window, needing to get off by October in order to reach both Ceres and Vesta, but NASA is putting Phoenix as its main priority.

Dawn only has to July 11 to launch right now due to the many delays thus far, not the least of which was the cancellation of the entire Dawn mission and reinstatement about 18 months ago. If it does not launch by the 11th, Dawn must stand down in order to allow Phoenix to meet its Aug. 3 launch date; allowing Dawn a few more days would delay Phoenix into its window.

But the catch with Dawn is that if a 'go' is given to attempt a launch in this five day window, and the second stage gets fueled as it would, then that stage has a 45-day lifetime due to the

corrosive nature of the propellants it uses. A new second stage is likely not to be ready until October, near the end of Dawn's window to explore both bodies, and would cost millions.

Whenever Dawn launches, it will be one of NASA's most significant missions in recent and coming years. For the first time on an interplanetary mission of exploration, an ion engine will be used to propel the spacecraft. Tested on the Deep Space 1 mission in the late 1990s, Dawn has built upon successful technology and will use the ion engine for the duration of its mission. Loaded with 425 kilograms of Xenon gas, the engine can operate nearly continuously for many years.

Ceres and Vesta offer what scientists believe is a preserve of materials from the early solar system, trapped into bodies that never quite became planets like most of the early material.

Dawn is due to launch at 4:09 p.m. EDT Saturday, and the launch time gets about five or so minutes earlier each day through July 11. The window is about 25 minutes long each day.

### Delta 2 launch viewing

Saturday, July 7 at 4:09 p.m. EDT

A Boeing/United Launch Alliance Delta 2-Heavy rocket, with slightly larger SRBs than a regular Delta 2, remains set (as of press time Sunday) to launch NASA's Dawn mission this Saturday July 7. Dawn will be a major mission using ion propulsion to explore the two largest asteroids in the asteroid belt, dwarf planet Ceres and asteroid Vesta. Liftoff of the 13-story Delta 2 is slated for 4:09:31 p.m. EDT, with a launch window lasting until 4:36:22 p.m. EDT.

Directions / Launch viewing from the Jetty Park pier

The Jetty Park pier in Cape Canaveral is the closest and best launch viewing of any unmanned launch at exactly 2.9 miles from Launch Complex 17, and is in fact the closest the public can get to a rocket launch in the western hemisphere. It is recommended to not leave Daytona more than two hours before launch (note also there will be heavy race traffic all this week); earlier is better to ensure a good spot on the pier. The drive takes about 70 minutes and the pier can hold a few thousand people.

**Directions:** Take I-95 south 55 miles to Exit 205 (The Beachline, Rt. 528) EAST towards "Canaveral: Cape-Port-AFS." Stay on for about 15 miles. There are two exits for Port Canaveral, the first is a big BLUE sign (exit A) and the second is a big GREEN sign (exit B). Take the second exit; the GREEN sign marked TERMINAL B/South piers. Go left off the exit ramp (at the light) and follow this road (George King Blvd.) to the end, which is the entrance to Jetty Park. There is a \$5.00 cash parking fee per car. Park and walk to the very end of the pier (the best, clearest view is in the last 150 or so feet at the end of the pier). This concrete pier is 1,200 feet long and about 10 feet wide.

It will be reasonably loud, and Delta 2 is the fastest moving of the rockets launched here; the most 'rocket-like' of launches. Once there, the NASA Television broadcast can be heard on a scanner at 146.9400.

Most importantly, be sure to check the Dawn "mission status center" at [www.SpaceflightNow.com](http://www.SpaceflightNow.com) before you leave to check on the latest weather and technical status.

EDITED BY BEN COOPER

## Airbus sweeps up orders



PHOTOS COURTESY BOEING, AIRBUS

Brian Asbury

Advertising Manager

Airbus opened up the Paris Air Show announcing orders worth about \$43 billion dollars. Rival Boeing only added up \$4.4 billion. Airbus's new orders included Qatar Airlines purchasing 80 A350 despite

the torment of problems the A350 has encountered, worth about \$18 billion.

Airbus still has a long way to catch up with Boeing's new 787 Dreamliner however. Going into the air show, Boeing had bagged 584 orders for the Dreamliner with Airbus only having a mere 13 committed orders for the A350 with

another 142 non-final orders.

The France based company placed an additional 114 orders throughout the fair including Qatar's 80 along with 12 from Kuwait Aviation Lease and US Airways ordering an additional two A350s to a previous order for 20. This brings US Airways to a total of 339 Airbus aircraft including the A320 series as US Airways

phases out the Boeing 737-300/400.

Emirates also spent \$2.5 billion at the Airbus store with a purchase of 8 more A380s for their fleet, but remained hesitant as to future purchases with Airbus.

With the A350 requiring a re-design, it will not be delivered until 2013 while Boeing will have 787s in

flight next year. Steve Udvar-Hazy, founder and chief executive officer of International Lease Finance Corp., the world's largest airline leasing company, states that the A350 is no match for the Dreamliner. "We've got some talking to do to both Boeing and Airbus with regard to the commercial terms of the deal,

but I think we're in a good position to make an aircraft decision in the next few months," said Emirates President Tim Clark.

Airbus's focus on the A380 and it's problems have set them back as the worlds dominant plane producer allowing Boeing to step in and pick up the slack.

## Atlantis finally heads home after touchdown in the Mojave



PHOTO COURTESY WILLIAM G. HARTENSTEIN

**THE SPACE SHUTTLE ATLANTIS**, mounted atop one of NASA's two 747-100 Shuttle Carrier Aircraft, takes off from Edwards Air Force Base (EAFB), Calif., at sunrise Sunday for the multi-legged trip back to Kennedy Space Center. Not allowed to fly through rain or at night, with a ceiling limit of 15,000 feet, temperature limit of 15 degrees F and getting just about 300 feet to the gallon due to heavy drag, several refueling and overnight stops are made along the way. The first was at Amarillo, Texas and a second was made at an Air Force base in Nebraska Sunday night. Atlantis landed at EAFB June 22 after delivering a new solar array to the International Space Station.

## Rover to risk crater journey

Ben Cooper

Space Tech. Editor

The Mars Exploration Rover Opportunity, on the Red Planet with its sister Spirit since early 2004 and still going strong, is getting ready to make a journey that might be its last.

NASA managers announced the decision to drive the rover into Victoria Crater, a large ancient crater it has been exploring from the rim for the last year. Opportunity will begin the trek down a relatively shallow area in a few days, with the possibility that the journey could be its last. It is not known yet whether the rover will be able to climb back out, but NASA believes the rewards outweigh the risk. The crater has exposed areas which may have telltale signs of Mars' past, likely a water-covered one.

The Spirit rover is still going strong as well, though it has had less capability since losing use of one of its six wheels over a year ago. The rovers had an initial life of 90 days but have surpassed that more than 12-fold. If they survive another year, they may be joined by the Phoenix lander due to launch this August.

## U.S. and Australian engineers put the test to scramjet in Outback

Peter Richardson

Systems Manager

United States and Australian engineers and scientists successfully launched a Scramjet propelled test vehicle on June 18 in the deep Australian outback. Preliminary test results are positive and the aerospace community considers the test a major success. Many think that this new Scramjet technology is the next step in atmospheric aerospace test operation.

A Scramjet is a hypersonic Ramjet

type engine whose major selling point is its lack of major moving parts and its potential for very high top speeds in the theoretical range of Mach 24 (24 times the speed of sound). The engine works much like a regular jet engine except that the airflow is pushed through the combustion chamber only by the hypersonic forward motion of the aircraft while the fuel mixture is added at very high speeds and then ignited. The resulting expelled air is at a higher temperature and pressure than the surrounding air and thus creates forward thrust for the vehicle. The main draw back of

this technology is that the engine, and thus the vehicle, must be traveling at very high speeds of around Mach five, before the engine can even be ignited. This requires that a future vehicle be first propelled by a more conventional means to Mach five where the Scramjet can then be ignited. Still even with this drawback the speed potential for this technology is a large lure with intercontinental travel times in the theoretical one and a half hour range.

This latest test is being called the first known successful atmospheric firing of an inward-facing Scramjet

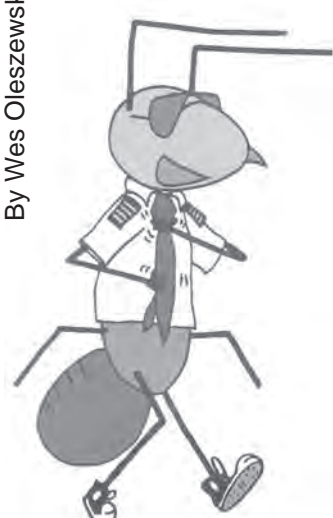
engine that is widely considered to be the variant of the Scramjet technology that can bring it into the mainstream. The main difference between an inward-facing and some other Scramjets, including NASA's X-43 aircraft, is the shape of the combustion chamber. The older Scramjet engines have rectangular-box shaped combustion chambers that creates a lot of surface area and has a lot of heat transferred to the vehicle. This newer inward facing Scramjet has higher speed potential due to less fuel payload required thanks to less surface area created with a funnel

shaped combustion chamber, which results in less heat transferred and less cooling required.

This latest hypersonic test was conducted by the Australian Defense Science and Technology Organization (DSTO), the United State's Defense Advanced Research Projects Agency (DARPA) and the Australian Hypersonic Initiative (AHI) at the Australian Woomera Test Facility in South Australia. The HyCause vehicle was launched atop a TALOS rocket and reached a height of 530 km, a speed of Mach ten and flew for almost 13 minutes.

This test was the latest in a string created by the "Hypersonics International Flight Research Experimentation (HiFire) Agreement" of last year that was signed by DSTO and the United States Air Force. The agreement will result in around ten more hypersonic flight experiments at the Woomera test range over the next five years. These experiments promise to bring Scramjet and other hypersonic alternatives one step closer to mainstream air transportation use and it might not be long before 2 1/2 flights between Sydney and London become a reality.

By Wes Oleszewski



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## SUDOKU

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DIFFICULT

## Mumbo - Jumbo

**ACROSS**

- 1 70's music
- 6 Bridge support
- 10 Russia
- 14 Practical joke
- 15 Boyfriend
- 16 Egyptian river
- 17 Jacob's father
- 18 Wire projection
- 19 Flunk a test
- 20 Eye infection
- 21 Drug doer
- 23 Very poor quality
- 25 Shade of black
- 26 Atmosphere
- 27 Girlish \_\_\_\_
- 30 Manic depression
- 34 Love
- 35 Makes mistakes
- 36 Liberal (abbr.)
- 38 Nimbus
- 39 Caesar's twelve
- 40 End
- 42 Ball holder
- 43 Bowler's target

**DOWN**

- 44 \_\_\_\_ Air Patrol
- 45 Ming \_\_\_\_
- 48 Consider true
- 49 Environmental protection agency (abbr)
- 50 Symptoms of malaria
- 51 Old Testament prophet
- 54 Preparation (abbr.)
- 55 Head apparel
- 58 One nautical mile per hour
- 59 Group
- 61 White poplar
- 63 Doing nothing
- 64 Canal
- 65 Hospital worker
- 66 Tinter
- 67 Tear violently
- 68 Chicken brand

**DOWN**

- 1 Podium
- 2 Institution (abbr.)
- 3 Abide

**DOWN**

- 4 Central Intelligence Agency (CIA)
- 5 Happened
- 6 Monastery
- 7 Tush
- 8 Automobile
- 9 Wheel covers
- 10 Unroll, like a banner
- 11 Thailand
- 12 Thin
- 13 Depend
- 22 Behold
- 24 River (Spanish)
- 25 Spirit teacher
- 27 Information
- 28 Left out of gear
- 29 Sticky
- 30 Large body of salty water
- 31 Colored part of eye
- 32 Pain reliever brand
- 33 Unyielding
- 35 Doorway sign
- 37 Bundle
- 40 Tenant

- 41 Rodents
- 43 Contains Book of Psalms
- 46 Fix a pet
- 47 Baboon
- 48 Grow older
- 50 Weaponed
- 51 Slide out of control
- 52 Comedian Griffith
- 53 Double agent
- 54 Ache
- 55 Not his
- 56 Ditto
- 57 Adolescent
- 60 Before, poetically
- 62 Purchase

Submit your completed crossword to our office in SC 110. All correct entries will be entered to win a \$10 Barnes & Noble gift card. Entries are due Friday, July 13 by 5 p.m. Good luck!



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### Last Issue

It's getting hot out here

WINNER: Marianne Baskin

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**HOUSING / ROOMMATES**

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## 'Oceans 13' has plot for all viewers



Oceans 13



Peter Richardson  
Systems Manager

George Clooney and his movie star crime crew return for a third installment in their successful movie franchise with Ocean's 13. Many considered the second movie in the franchise, Ocean's 12, less of a movie than the original and although it grossed a fair amount of money like the first, it wasn't as well received. Danny Ocean and the boys try to break that mold this time around with another humorous and action-packed plot-line, stellar presentation, super-cool characters and great villains. Ocean's 13 tries for the "better than sequel" title and in many ways succeeds.

The plot of Ocean's 13 is as ridiculous and fun as the first two movies. In this heist one of the Ocean crew gets "backstabbed" in a new business deal by a very villainous Al Pacino and this spurs the Ocean clan to hatch another super-robbery as an act of revenge. The entire crew is back and seems to fall into their respective roles perfectly. Each character gets an amusing and important part of the

heist-plot all to themselves and some characters are given much bigger roles this time around. All the usual Ocean tricks are played including electronic trickery, explosives, European accents and even ridiculous fake body additions. Overall the

“  
*Not just any bunch of thugs can pull off these characters ...*

-PETER RICHARDSON

plot is just as silly and quick paced as the other Ocean movies and is probably even stronger than the second film.

The execution of the Ocean's 13 characters is where the real magic comes into play. Not just any bunch of thugs can pull off these characters with the ease that the Ocean gang does. It almost seems that each of them just exudes a sense of utmost cool. This coolness along with great moments between the characters, pretty decent dialogue and the ever stylish wardrobe really brings the Ocean team alive. The viewer really gets a sense that the whole gang does these movies just because they enjoy hanging out together and genuinely like each others company. In fact you almost believe that the screen characters are really just tiny-extensions of their real personalities and relationships. While this is most likely far from the truth, the fact that they pull this off really speaks to how well the cast was assembled together.

The villains of this movie are also superbly cast. Al Pacino does a great job of being a Vegas rich mean-guy and holds his own against the combined might of the Oceans crew. Also coming along for another spin is Andy Garcia who again plays the awesome Terry Benedict and comes off just as fun as Al Pacino to watch. Individually most of the cast are quite successful and generally

decent actors but together as an ensemble they are even better.

The presentation of Oceans 13 is on-par with the other two films and is the final step in bringing this film alive. The quick, quirky and fun cinematography is really key in how the movie comes off. The camera brings to life the ludicrous lives of these characters and lets you also see some great shots of the locations. There is also the music of this movie which almost manages to steal the show. The great smooth jazz, and generally "Las Vegas" themed tunes keep the story moving and is almost a character in itself. The lighting, pacing, locations, sets, costumes are all flawlessly done to bring off a sense of "realistic but cool" and bring the movie to life while not being distracting and taking away from the plot. The presentation of Oceans 13 brings this film together and turns it from Brad Pitt, Matt Damon and George Clooney just hanging out in Vegas into the cool, heist film of Ocean's 13.

The "three-quel better than

“  
*All the usual Ocean tricks are played ...*

-PETER RICHARDSON

sequel" is a long running theme in Hollywood and it seems that Ocean's 13 is no exception. With the same stellar Ocean cast and the same awesome presentation as the first two films it is really the supporting cast and plot that manages to keep this franchise going strong and feeling fresh. Awesome group dynamics and mean villains allows for the Ocean gang to shine again in this great, fun summer movie.



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## 'Fantastic Four'a good sequel



Fantastic Four 2



Peter Richardson  
Systems Manager

It may seem weird that Fox and Marvel Studios decided to create Fantastic Four: Rise of the Silver Surfer (FF2) after the dismal reception of the first Fantastic Four movie just a few years ago. The original movie had one-dimensional characters, a terribly predictable plot and pretty terrible acting. Fantastic Four was almost an exact example of how not to do a super-hero movie. But the people at Fox and Marvel knew they had a potentially decent license in the Fantastic Four and strived to make a movie that played to the Fantastic Four's strengths, action, light comedy, cool effects and of course Jessica Alba. FF2 plays very strongly to all of these strengths and while in no way is it an amazing movie; it does manage to achieve some good summer fun.

The FF2 plot is not something to write home about. The Four are back and Fantastic as ever with the viewers joining them just as Mr. Fantastic and the Invisible Woman are about to again try and get married. Unfortunately for them the world is about to end and Mr. Silver Surfer is here to tell about it. They have to break the wedding up to solve a puzzle of strange anomalies seen around the world and somehow link all these signs to this mysterious Silver Surfer. The rest of the film is action, bad-dialogue and attempts at comedy, with large chunks of computer graphics thrown into the mix. Overall the plot serves as the platform for this movie but is in no way the stand out feature of this film.

The characters in FF2 are surprisingly a lot better than the original. It seems that the actors actually manage to worm their way into their respective spandex clad roles and most of the acting, while not Hotel Rwanda, does come across as alright. It was obvious from the start that it was important that the Silver Surfer come off as cool and not cheesy for this movie to survive. Luckily they succeeded quite well in bringing the Surfer to life and the voice of Laurence Fishburne was perfect for the character. News of a dark, grittier Batman Begins style treatment of a Silver Surfer spin-off was early confirmation that the character worked well. In fact the only character who really didn't work well for me, even in the first film, was



PHOTO COURTESY 20TH CENTURY FOX

Julian McMahon's Dr. Doom. Julian's sly and moody voice and acting style really doesn't pull off the evil megalomaniac the Dr. Doom is supposed to be. This was only confounded more by the fact that Dr. Doom hardly got to do much cool stuff in this film and was seemingly defeated (for now) quite easily. Most of the characters actually seemed to work in this film and although the acting wasn't top notch, it was serviceable enough for this super-hero movie.

The effects and visuals of this film are of course top-notch. Fox spared no expense to make this movie look cool. Some of the computer generated location and computer enhanced locations are truly quite good and all of the super-hero effects are done very well and somehow don't come off as super cheesy. Even the big bad guy

“  
*Most of the characters actually seemed to work in this film ...*

-PETER RICHARDSON

at the end just looks kind of cool where there was great opportunity to ruin it and look horrible. The effects and graphic give this movie something to work with and keeps the movie aloft through the decent acting and interaction of the characters.

As surprising as this may seem, Fantastic Four: Rise of the Silver Surfer achieves what it set out to do, entertain a large audience. It is the perfect summer movie for all ages and has a little something for most. While the plot and acting are decent at best, the computer effects are super the Silver Surfer is cool. The overall thing you take away from this movie is that it was entertaining and that everyone had a good time. If you are just looking for an action-packed, summer blockbuster movie, Fantastic Four: Rise of the Silver Surfer quenches your summer movie thirst.