Aviation company challenges students to consider future

ELIZABETH ZINCHUK
Daily Egyptian

Finding a way to protect pilots from blinding lasers was just one part of a university competition that was anything but an average senior project.

Twenty-two engineering students participated in the Crew Station 2040 Challenge: University Capstone Competition, which was sponsored by Boeing Military Aircraft and took students two semesters to complete. During the competition, students designed a cockpit that would be used in 2040. Two student teams, Horus and Flying Pharaohs, were judged and critiqued on their designs Thursday and Friday, and they were judged on how they solved criteria, and technical efficiency.

Frances Harackiewicz, professor of electrical and computer engineering, said Ed Winkler of Boeing contacted the university to hold this competition, which Boeing originally sponsored at military academies. The interact with Boeing engineers throughout the project, she said.

“"This is a great opportunity for students to have their work judged by engineers with years of experience working on the same or similar types of problems in the industry," she said.

Harackiewicz said she helped advise the students, but the designs were created solely by the teams.

"(The students) received guidance from the senior design course professors, as well as other faculty in the college they tapped into for technical advice," she said. "But the students had to create and prioritize their own weekly action items as a team."

Harackiewicz said the competition challenged students in ways that will help them obtain future jobs. Both teams were isolated from each other and had no idea what their opponents were working on, she said.

After two semesters of hard work and judging from Boeing executives, as well as university staff, Horus won by a small margin, said Nick Musick, the team’s project manager, a senior from Eureka studying electrical engineering.

Musick said he worked on engineering-related team projects before, so he decided to take his experience to team Horus and the Boeing competition. Horus’ design was examined for an overall technical analysis, the team’s brainstorming process and technology trends competitors predicted would be viable in 2040, he said.

"This project took my experience as an engineer working with a team to a new level," Musick said.

The team interviewed different pilots to find solutions to modern cockpit issues that they might have had, he said. One idea the team considered was to have cockpit controls be controlled by neuroscience, he said where a pilot would control a plane with their mind.

"Neuroscience control" was a complicated idea because it would have to decipher between a thought and a decision, which might be difficult during high-stress situations, Musick said.

Musick said it was a challenge to build a design that might not be operational for awhile.

"Both teams gave up a lot of nights for this," he said. "It was a lot more demanding, impressive project to do than a typical senior project."

The biggest challenge, he said, was to think something would work in the design but then find flaws later.

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Mathew Geeverghese, a senior from Arlington Heights studying computer engineering, kisses the trophy awarded to his team Saturday in the Engineering Building after it won the Crew Station 2040 Challenge: University Capstone Competition sponsored by Boeing Military Aircraft. Two teams of 11 SIU students have been engineering the cockpit of the future over the last academic year, and Team Horus took home the trophy by a 4-point win after two days of in-depth design presentations.

TIFFANY BLANCHETTE | DAILY EGYPTIAN

College experience could deter student crimes

TREY BRAUNECKER
Daily Egyptian

College is a chance for young adults to continue their education and train for a career in the job market, but it might also be a threat to recent students from committing crimes.

According to a Chronicle of Higher Education report, the Journal of Injury Prevention performed a study that looked at 7,000 senior students from a southern U.S. university with criminal records before attending college. The report stated that students who commit crimes before college are more likely to break conduct codes, but many were not reported to be involved with criminal activities once they left college. The survey also stated 3 percent of students involved in college misconduct reported having criminal records before attending, and less than 9 percent of students who reported having a criminal record were accused of misconduct while attending college.

The survey’s results pose the question of whether students with criminal records are more likely to commit crimes after college.

Danielle Soto, criminology and criminal justice assistant professor, said college is a good experience for young adults because it allows new students to associate with a diverse group of people. College could help students with criminal records establish friendships with students from different backgrounds and introduce them to peers who provide a more positive influence, she said.

Please see CRIMINAL | 3

Students seek university counseling at increased rates

ELIZABETH ZINCHUK
Daily Egyptian

Universities nationwide have seen an increased amount of students who seek counseling, and the university has seen its rate climb even higher than the national average.

According to a survey reported in the Chronicle of Higher Education, the number of college students with severe psychological problems who seek help continue to increase. Counseling center director Rosemary Simmons said the average percentage of students who visit the counseling center for an institution the university’s size is 8.4 percent. Before April 19, she said, 11.95 percent of university students have visited the campus’ centers.

Simmons cited everything from people becoming more open to seeking help to end-of-semester stressors such as approaching finals as reasons for the increased numbers.

"The stressors keep rising," Simmons said. "Financial stress, social anxiety and all the things that happen around the world, with the quickness of the media, every bad event that happens is known."

She said anxiety has surpassed depression as the most frequent issue students come to the counseling center for. Peer support is important for coping with the illness, she said.

"The best thing to provide people with mental illnesses is to give them a sense of normality and validity that their concerns are acceptable," Simmons said.

The counseling center has tried to provide resources to new students on campus this year through the University College 101 class and connecting with University Housing and resident assistants, she said.

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About Us

The Daily Egyptian is published by the students of Southern Illinois University Carbondale 50 weeks per year, with an average daily circulation of 15,000. Fall and spring semester editions run Monday through Thursday. Summer editions run Tuesday through Thursday. All intersession editions will run on Wednesdays. Free copies are distributed in the Carbondale and Carpenter communities. The Daily Egyptian online publication can be found at www.dailyegyptian.com.

Mission Statement

The Daily Egyptian, the student-run newspaper of Southern Illinois University Carbondale, is committed to being a trusted source of news, information, commentary and public discourse, while helping readers understand the issues affecting their lives.

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“Things never go smoothly,” Musick said. “I feel like I learned more by doing this competition than in a class.”

Team Flying Pharaohs project manager Jonathan Miller, a senior from Tamaraa studying mechanical engineering, said, his team considered adding teleportation to its design at one point but had to rule it out. Much of the creation process involved deciding whether different designs would be possible by 2040, he said.

“You look at current research and look at what might be feasible and available,” Miller said.

The Flying Pharaohs designed a method to help solve the issue of pilots being blinded by lasers. A problem Boeing told the teams to help alleviate in their designs as blinding lasers could very well be a weapon used in future military strikes, Miller said. Boeing has hired many university graduates, Miller said, so it was an exciting experience to have Boeing executives and School of Engineering administration help judge the designs.

“They have done several education outreach competitions in the past,” he said. “[Boeing] chose schools to help prepare future engineers.”

Miller said his hard work will pay off in his professional future. Boeing might look highly at a student who puts the dedication into a competition like this, he said.

“The experience and workload are well worth the effort,” Miller said.

Elizabeth Zincknek can be reached at ezincknek@dailyEgyptian.com or 536-3311 ext. 268.

CRIMINAL
CONTINUED FROM 1

“It helps when students can get outside of a delinquent peer group and get away from a bad neighborhood a student used to live in,” she said. “Physically moving away from those influences gives...”

Soto said attending college gives delinquent students the chance to grow academically, but it would be naive to assume students avoid illicit activities while attending college.

“Everyone knows undergraduates engage in plenty of underage drinking and drug use,” she said. “College isn’t a straight line. You can focus on your studies and drug use,” she said. “College isn’t...”

Komarraju said it is a good thing mental health becomes more available. Students who consider mental illnesses not as important as physical illnesses are prevented from seeking help.

“In my opinion, perhaps students who have mental health issues are less likely to be aware of the support services available,” she said.

Komarraju said students may have stigmas such as immediate stress or something that has been chronic.

Kumaraju said students may have school without recognizing it, which would leave the incoming freshmen to retain those issues through college. She said stigmas such as students who consider mental illnesses as not as important as physical illnesses are prevented from seeking help as knowledge about mental illnesses becomes more available.

COUNSELING
CONTINUED FROM 1

Despite reaching out to new students, she said, the counseling center sees freshmen the least.

“Freshmen are usually pretty optimistic, and think they have time to fix a problem,” Simmons said. “A junior tends to think they have one or two years to fix their problem, so they will come in more often than a freshman.”

Simmons said she has worked to spread the word about the counseling center’s benefits. Several students said they would feel comfortable taking advantage of the center if needed, and the staff member said the resources the center provides can benefit any student who seeks them out.

Alex Bennett, a sophomore from Bloomington studying cinema-photography, said he thought about visiting the counseling center after he endured a tough time last year.

“I was considering going to talk with a counselor after I had a breakup,” he said.

Cristina Romero, a senior from Cicero studying animal science, said she has known about the counseling center and would not object to a visit. She said she was not surprised the number of students who seek help has risen.

The center considers adding teleportation to its design at one point but had to rule it out. Much of the creation process involved deciding whether different designs would be possible by 2040, he said.

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BRANDON EDWARDS | DAILY EGYPTIAN

Counseling

<table>
<thead>
<tr>
<th>Year</th>
<th>Numbers of students who sought SIU counseling</th>
<th>Percentage of students who sought SIU counseling</th>
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<tr>
<td>2010-2011</td>
<td>2049</td>
<td>10.23</td>
</tr>
<tr>
<td>2011-2012</td>
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<tr>
<td>2012-2013</td>
<td>2253</td>
<td>11.95</td>
</tr>
</tbody>
</table>

Average percentage of students seeking counseling in a university the size of SIU is 8.4

Source: Counseling Center’s Data
Boys and Girls Club of Carbondale members paddle a cardboard boat Saturday across Campus Lake as part of the 40th annual Great Cardboard Boat Regatta, presented by Alpha Chi Sigma. The regatta invited teams to build cardboard boats and compete in races. Chrishon Sawyer, center, a second-grader from Carbondale and member of the Boys and Girls Club of Carbondale team, said the race was great and he had a lot of fun. Will Sutphin, a graduate student in geography and environment resources from Bartlett, volunteers with the club and helped the children build their boat. “We’ve done this several years now,” he said. “It’s a blast.”

LAURA ROBERTS | DAILY EGYPTIAN

Crafty canoes

PHILADELPHIA — The high-profile murder trial of a Philadelphia abortion provider sparked courtroom debate Monday over when life ends, a tweak of the politically charged question of when life begins.

Dr. Kermit Gosnell, 72, faces capital murder charges in the deaths of four aborted babies, described by prosecutors as viable, born alive and then killed at his busy West Philadelphia clinic.

In closing arguments, Assistant District Attorney Ed Cameron called Gosnell’s operation an assembly line where a stream of poor, mostly minority women and teens endured hours of painful labor and delivery because Gosnell did not successfully abort babies in utero. He instead killed them with scissors after they were born, authorities said.

MARYCLAIRE DALE
Associated Press

Pa. abortion trial stirs debate on when life ends
**Saluki face stiff test at historic meet**

TERRANCE PEACOCK
JACK ROBINSON
Daily Egyptian

The Saluki track and field teams started their weekend with a record-breaking performance and some home with an event title from their top senior thrower during the 104th-annual Drake Relays. More than 8,000 athletes from professional, collegiate and high school ranks traveled Thursday to Des Moines, Iowa, for the finals. Results and medallists from the 2012 Summer Olympic Games in London were also present. The Salukis concluded their way Saturday in first of a crowd of more than 14,000 spectators and ended with a handful of impressive performances, including an event win title of country thrower J.C. Lambert.

Lambert won his fourth hammer throw competition season in as many attempts, but this was his first career Drake Relays victory. The all-time Missouri Valley Conference hammer throw leader won with a 66.92-meter final heave, six feet better than second place.

Throwing coach John Smith said Lambert’s hammer-throw victory is a significant event for the SIU track program. “Drake is a big meet, and it is nice to get a guy to win it,” he said. “Lambert” is our first guy that has ever won the hammer throw.”

Smith said if there is anyone fit to compete after college, Lambert is one of those guys. “He can have a great post-collegiate career,” he said. “When you come out of college throwing over 70 meters, those are the kind of guys that should continue on and become hammer throwers.”

The men’s 4x100-meter relay team composed of sophomores Sade Dumeil, Holden Reba, Kelli Gallahger and junior Alysah Allison broke SIU’s all-time event record Thursday but finished seventh at 20 minutes and 6.75 seconds — six seconds better than the previous all-time mark set in 2005.

The men’s 16x400-meter relay team, which featured sophomores Oscar Medina, Juan Carrera, Cole Allisson and senior Lucah Cherry, also finished seventh in the event at 17:23.67.

The Salukis maintained their pace Friday with four top 10 finishers, which included two in the collegiate women’s shot put.

Senior thrower Kim Formety finished fourth in the women’s shot put with a 6.21-meter heave — a personal best.

Formety finished behind Oklahoma senior Tia Brooks and Indiana State’s senior Felisha Johnson, the top two throwers in the nation. Her heave now stands as the 15th best in the country.

Sophomore Ashley Gaston also finished in the top 10 with a season-best 15.71-meter throw. Her heave placed her seventh in the competition.

Freshman thrower Josh Freeman placed sixth in the men’s shot put with a 17.72-meter launch. The University of Georgia took the top three spots with throwers all ranked in the top 10, but Freeman’s sixth place heave was not far behind.

Junior jumper Kenya Culmer also finished high for SIU with a season-best fourth-place finish in the women’s high jump. The Bahamian native cleared 1.76 meters and finished behind three student-athletes in the top-16 nationally.

Senior jumper Shaheeb Shubert continued the Saluki impressive performance at the Drake Relays in the highly competitive 400-meter hurdles. Shubert finished seventh overall with a personal-best time of 59.26 seconds — the second-best time in Saluki history. Shubert sits at 38th nationally in the event.

“Drake is always a great place to compete at,” Price-Smith said. “The good thing is that the athletes got to go on the track, and in the rings and on the runways, so when conference comes in two weeks there should be no surprises.”

The Saluki compete at home Saturday for the Saluki Outdoor Open, a final tune-up before the MVC Outdoor Championships begins May 9 in Des Moines, Iowa.
Pick up the Daily Egyptian each day to test your crossword skills!

Aries — Today is an 8 — Invest in household items and clean up your place. Obligations nag you, but you find great satisfaction when you complete. Get into action rather than worrying. Put some great music on, and give it all you've got.

Taurus — Today is a 9 — Your romantic luck holds. Rely on your experience and take advantage of favorable winds to advance. Invest in home, family, friends, land and real estate.

Gemini — Today is a 7 — Mind and heart rate together, but are not always in perfect condition. The steps you take, one at a time, open new doors. Sweeter the moment with honey or the company of a loved one.

Cancer — Today is a 9 — Adapting to sudden changes and breakthroughs at work. Everything falls together in the end. Balance your professional life with what's best for your home and family. It's a good time to sell.

Leo — Today is an 8 — Use this time to reorganize financially. Throat, throat, money coming in the layup, but don't throw it away. You have what you need. Handle miscommunications immediately. Spend time outdoors.

Virgo — Today is a 9 — Learn about a subject that's outside your experience. Gather up something that will get more valuable. Stick to your schedule. A starting revelation shifts what you thought was possible.

Libra — Today is an 8 — Fill your heart with love and attention from friends. Then go for what you want, despite challenges (or thanks to them). Turn up the volume and rock out. You have what you need. Happy to contribute. Explore your own world, and take the long view.

Scorpio — Today is a 9 — Your credit rating is going up. Invest in your career, and follow a dream. Edge out a competitor with quality. You continue to advance, effortlessly. A friend offers support.

Sagittarius — Today is a 7 — Let your partner speak, and listen carefully. Cash flow is positive, so get practical and improve your living conditions with color and comfort. Streamline routines and practices.

Capricorn — Today is a 9 — Conditions improve noticeably, and you've got the power. Use it to lighten your load. Delegate to a partner who is happy to contribute. Explore your own neighborhood, and take a long view.

Aquarius — Today is an 8 — Investigate a fascinating possibility. Get a good recommendation, make connections and line up resources you need. Take care of someone who needs it, with gentle patience.

Pisces — Today is a 9 — Accept all the help that's coming. Listen and learn from a perfectionist. Test new waters at work. Think of it as a game. Avoid a potentially explosive situation. You're gaining respect.

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Horoscopes

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Fabricated by Rich Norris and Joyce Lewis

By Pam Amick Kleinman

Pick up the Daily Egyptian each day
to test your crossword skills!
TERRANCE PEACOCK  
Daily Egyptian

The SIU softball team gained ground in the Missouri Valley Conference standings with its three-game sweep of Bradley at Charlotte West Stadium.

Weather was a factor in the Salukis’ (24-25, 12-10 MVC) weekend series as the teams rescheduled game two of Saturday’s doubleheader because of wet field conditions. The teams played a Sunday doubleheader to complete the three-game series.

The Salukis tied a season-high with four errors during Saturday’s game, but they held on to beat the Braves 4-3 on senior day. The Salukis now stand fifth in the conference.

SIU took a 4-1 lead into the seventh inning before the Braves scored twice and loaded the bases with one out on sophomore pitcher Alyssa Wunderlich, who entered the contest to relief pitch. However, Wunderlich worked out of the jam and recorded the final two outs to pick up her fourth save of the season.

Senior pitcher Brittney Lang (12-14) nabbed the win after allowing two earned runs on six hits with six strikeouts and one walk in six innings. Wunderlich struck out two and allowed one walk and one hit in the final inning.

SIU used key pitching to beat Bradley 6-5 in game one of Sunday’s doubleheader as the Salukis off a furious seventh-inning Braves rally to preserve the win.

“It all starts in the circle,” coach Kerri Blaylock said. “I thought we had two pretty solid pitching performances. Then we got some relief. That helped a lot.”

Wunderlich picked up her eighth win of the season after she allowed five runs on 12 hits with four strikeouts in six innings. Sophomore pitcher Katie Berthe mis replaced Wunderlich in the seventh inning and recorded the last three Saluki outs to pick up her fourth save of the season.

Chalk seventh-inning, at-bat lifted the Salukis to a 4-2 comeback win in Sunday’s series finale to cap off the series sweep.

“Trailing 2-1 and down to their final at-bat, junior outfielder Michelle Glenn hit a blooper to right-center field for a double. She then scored from second base on an infield single by senior outfielder Morgan Barchan to tie the game at two runs. In the following at-bat, Barchan stole second, took third on a throwing error by Bradley’s catcher and scored the winning run on another throwing error by the Bradley’s center fielder.”

“Michelle and Morgan’s base running was the key to that last inning, no doubt,” Blaylock said. “It’s all about being aggressive and hustling. That’s what creates a lot of havoc.”

Barchan and Glenn will be key run-producers for SIU as the Salukis prepare to make a run for the approaching conference championship.

Barchan leads the MVC in hits with 60 and stands fourth in the conference with 42 runs scored and a .364 batting average.

For the rest of the story, visit www.dailyegyptian.com.