Lack of sleep hurts student health

BRIEN THRUNOLI
Junior Staffwriter

Almost every Carnegie Mellon student struggles with getting enough sleep.

However, in general, most students have no idea of how to combat the problem other than complaining about their relative tiredness and comparing all-nighters. A 2009 study published in the Journal of Adolescent Health found that more than 60 percent of college students demonstrate disturbed sleep patterns, and 20 percent reported sleeping in at least one hour less each night. The Tartan conducted a survey to determine the amount of sleep that college students are receiving, and their perceptions of the effects sleep has on their academic performance, as well as physical and mental well-being.

In order to get a sense of college students’ sleep habits, as well as its perceived and actual effects, The Tartan created and distributed an online survey. There were 302 respondents, all of whom had registered college email addresses, and 56 of whom attended Carnegie Mellon. Fifty-one percent of respondents reported sleeping less than eight and one hours on weekdays (defined as Sunday to Thursday), whereas 71 percent reported sleeping less than seven and three hours on weekends (defined as Friday and Saturday). Nine percent of respondents reported sleeping more than 10 and one hours each night.

The survey also asked students about their perceptions of the effects sleep has on academic performance, as well as physical and mental well-being. Almost every student reported that not getting enough sleep negatively affects their ability to perform in a variety of areas, including problem solving, memory, and concentration. The majority of respondents (70 percent) also reported that they feel less focused in class the day after not getting enough sleep.

One of the most interesting aspects of the survey was the number of students who said that there is a lack of respect for sleep and for people who are tired. The majority of respondents (67 percent) said that their professors and classmates do not respect the time they need to sleep, and 71 percent said that their peers do not respect the time they need to sleep.
Campus Crime & Incident Reports

Alcohol Amnesty
November 9, 2013

University Police and CMU EMS responded to Boller Street and Olympia Place in response to an intoxicated student. The student, who had been drinking on Wilkins Ave., was taken to a hospital by city medics. University Police later responded to Webb Hall with CMU EMS and University Police and CMU EMS, along with city medics, handled a medical incident as deemed necessary. All of these incidents met the criteria for Alcohol Amnesty.

Bicycle Theft
November 11, 2013

University Police were summoned to Woodland Apartments in response to a theft report. The student reported that her bicycle, which was secured using a cable lock to a city of Pittsburgh “No Parking” sign, was removed from the premises. The victim stated that the second the bicycle at 10 a.m. on Nov. 10 and realized her bicycle was gone on Nov. 11 at midnight. University Police determined that the Pittsburgh Police did not remove the bicycle, since other bicycles were secured to nearby signs. Reminder: Please use designated bike racks to secure bicycles.

Purse Theft
November 11, 2013

University Police were summoned to 361 South Craig Street in reference to the theft of a staff member’s purse from her desk drawer. The female believes that someone stole her purse from her desk drawer between 9a.m. and 11a.m. This investigation is ongoing.

Underage Drinking
November 14, 2013

University Police were deporated to reports of “a female struggling to walk” at the intersection of Forbes and Morewood Ave. University Police determined the female was under the influence and intoxicated. CMU EMS and city medics were summoned to the scene to render medical aid. The female was taken to and released for underage drinking.

Kitchen Fire
November 14, 2013

University Police, along with the Pittsburgh Bureau of Fire, responded to the second floor of the University Center in response to a small kitchen fire. The fire was put out by several employees using college fire extinguishers. The cause of the fire was confirmed to be a kitchen dishwasher.

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Patricia Miller (CFA ’06) performed “Corner of the Sky.”

for a student, reasoning, and problem-solving functions. Additionally, sleep plays an important part in cognitive and physical health, among other issues. The effects of sleep on mental health average 4.36. "Our health is having a negative impact on our students," said Eric Schmidt, director of the White House Office of Science and Tech- nology Policy. Schmidt said that "studies confirm the existence of potential positive effects to be implemented, with the capacity to figure out which ones can be implemented and how he can go about implementing them." Eric Schmidt, executive chairman of Google, gave the keynote speech. Schmidt noted that "we have been a home for innovation and entrepreneurship" and pioneered the field of computer science. "There is a mythical place of achievement, this land here we are an embodied us an important part of planning." The keynote speaker was the Charles J. Queen- sberry, the Charles J. Queen-sociation and trustee; Roberta Klatzky, president of the Carnegie Mellon, in- troduced Suresh’s immigrant past. "We are proud of Suresh’s immigrant past," Schmidt said. "We are also proud of our employees. "The CulinArt employees are working hard,” Squir- rel said. “I love my union. My workers deserve a raise so we can continue to provide great service to our students.” The CulinArt employees work in the CulinArt Café and we are the best. They fight for us, they fight for SEIU; they are the best. They are the only option in our contract," Delaney said. “I love my union. My rights in our contract,” Squir- rel said. “I love my union. My rights in our contract,” Squir- rel said. “I love my union.

The choir performed “The Nativity” and “Adeste Fideles.”

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Lecturers discuss future of energy and climate change

JENNIFER GOLDA Staffwriter

Climate and energy experts from Carnegie Mellon University gathered earlier this month to participate in a symposium, sponsored by the New York Times and the Scott Institute for Research on Energy and the Environment, to discuss long-standing challenges in energy and climate. On November 18, 2013, the symposium opened with conversation between Eric Hendrickson, an assistant professor in the school of architecture, talks about the role of buildings in climate change and energy consumption. Hendrickson also explains that "the major problem with sharing solutions is not necessarily the lack of technology innovation, but also the ability of the people to bring them to the market.

The technology is there, but the hard part is in the people, and the policy," McMillen said. "That's why I think the program at Carnegie Mellon is so valuable because it addresses issues like that. Not only do they pursue technology solutions, but the Scott Institute for Energy Innovation and Sustainable Solutions. Education and Research here at CMU also pursue regulations for technology policy." Michael Odén, a sophomore in civil and environmental engineering who attended the symposium, said he was attracted to the talks because of his passion for the topic and his interest in the university's "much-needed visible presence on campus."

Two years ago, Watson, one of IBM's most powerful supercomputers, showcased its ability to aid any human in any game show Jeopardy! This week, IBM announced that Watson will be available through the Internet in two-form-as a powerful tool. Companies, academic institutions, and individual software developers will be able to use the system as a fraction of the cost, and it will be available in real-time. IBM has a strong track record of large corporations moving to cloud-based technologies. This week, the New York Times reported that "IBM's Watson"...
Researchers use inkblots to make safer passwords

How you look up older friends and imagine that a passing cloud looked like a spaceship will affect even a long ride holding a rope off much in the same way as the presence of chemical weapons may. Carnegie Mellon professor of computer science and electrical and computer engineering, and computer science, and electrical and computer engineering, have developed a new password system that makes it easier for people to assign unique passwords to each site they visit by using inkblots as a second line of defense from discovering lists of password.

The password system is creatively named GOTCHA, which stands for Generating Online Passwords to Tell Computers and Humans Apart. “The key word to focus on is ‘improve,’” Block said. “Panopticon refers to this specific architectural structure. You could think of a panopticon, for example, where the guards want to be able to monitor all of the prisoners without walking around. The basic architectural layout of the panopticon is a curved prison with the guard in the center, where he can look into any of the prison cells at any time. Basically, ‘panopticon’ refers to a world without privacy.”

The basis of password security is that when an individual creates a username and a password, the server will store that username along with a cryptographic hash of the password. When the user types in a password, the server will check if the hash of the given password matches the saved hash.

The problem is that this procedure makes it possible for an attacker who has already breached the server and can see the saved hashes of the passwords. “The thing about the hash function is that if an adversary guesses your password, then it’s very easy to compute the hash and match it against what’s on the file. So it is very easy to verify guesses,” Block said. Unfortunately, many people pick very simple passwords, such as “12345,” which has led to entire lists of passwords at companies such as Sony, Google, LinkedIn, and Amazon to be compromised.

GOTCHA works differently. When a user creates an account, after they give their username and password to the server, it will give the user randomly generated inkblots. The user must then assign labels to such as one of these inkblots, describing the picture that they make with phrases such as “a smiling Mr. Pritzl.”

When the server gets the labels, Block explained, “It just hash the hash of the password.”

To create the hash of the password with a permutation appended to it. Each time the user wants to log in, he must enter the correct username and password and then successfully match the inkblots to their descriptions. “So let’s say that the user has 10 inkblots. Then there are 10 factorial ways to match these labels to the inkblots. Now, an adversary that wants to use a brute force attack must simultaneously guess the password and the permutation. So essentially what we’re doing here is we’re expanding the amount of effort that an adversary needs to use to attack a password by a factor of about 5.8 million,” Block said.

Another key point that makes GOTCHA so effective is that in order to match each inkblots to their correct labels, an adversary would have to have a human’s body, which is more expensive than having a computer continuously guess their passwords.

To see if users could reliably remember their inkblot descriptions, 76 people were hired through Mechanical Turk, a crowdsourcing Internet marketplace that uses human intelligence to complete tasks, and were asked to describe 10 inkblots with intersecting labels. Ten days later, they were asked to match those labels with the inkblots. The study showed that of the 58 individuals who participated in the second part, one-third matched all of their inkblots correctly and more than two-thirds got half right.

Block stated that a similar study would probably be conducted again with additional financial incentives to pay for more accurate data. The study also suggested that instead of requiring that all 10 labels be matched successfully, an approximate matching should also be accepted.

Another change to the GOTCHA system that may be improved would allow the user to ask for a new inkblot picture when creating a new password. This way, the inkblots that don’t resonate with users can be discarded so that they can use more memorable inkblots.

The developers of GOTCHA, tenure members of the Carnegie Mellon community attempting to breach their new password system in the GOTCHA Challenge, which can be found online. Any artificial intelligence technique that can break the system would have to be truly remarkable, because as simple as describing random inkblots may seem, it has opened the door to a new era of password security.

Your Library—Your Voice Impact | fall 2013*

The library should be open all weekend, 24/7.
Hunt Library will introduce 24/7 hours on a trial basis from Dec 1 through spring finals.

More access to journals.
Effective Nov 15, the library has licensed online access to 2954 additional top quality journals.

‘VPN is very unreliable.’
Coming soon! Ezproxy access to journals and databases for off campus CMU users.

*Install Chrome on computers. Pleaseeeeesh!!!
All library-managed computers now have Chrome.

*Offer healthier options at Maggie Murph Cafe.*
We shared your comments with CulinArt. They are reviewing selections and adding new choices.

*Redo the website. This would be my #1 priority.***
The library will launch a new website in early 2014.
Meanwhile, have a look at Zap, the new app to access scholarly journals across disciplines!

*detailed at search.library.cmu.edu

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LaunchCMU showcases work of start-up companies

In the last year, Carnegie Mellon University professors and students have launched a record 36 startup companies, according to a Carnegie Mellon press release. Looking strictly at the raw numbers, the number of startups created and the amount of federal research money provided, it’s difficult to say, Carnegie Mellon, Carnegie Mellon University President Subra Suresh said, “we literally have been the best in the last week.”

Two previous innovations were presented at LaunchCMU, a showcase of the university’s research and entrepreneurial focus hosted by the Carnegie Mellon Center for Honors and Entrepreneurship.

The Maruder’s Map

Our main goal is to make the Maruder’s Map from Harry Potter a reality.

Theodore S. Tamburo, a PhD student at Carnegie Mellon’s School of Computer Science, has outlined the overarching goals of the startup company.

The product is currently fully functional and being tested in a nursing home. It utilizes data provided by almost all cameras around the nursing home to identify who each specific person is and track their location as they walk around the map.

Perhaps the most interesting aspect about this company is that the map provides information back to the user: exactly where J.K. Rowling researched in where she invented the idea of the Maruder’s Map.

“We believe that our product could be especially important in long-term health care,” Yu said. “It’s nursing homes like the one where we are testing; those cameras can only come on or off a ninja in there isn’t any plan to tell us anything.

These automated technologies can monitor the patients and provide a diagnosis. For example, our software models someone is in the dining room and calls a dining room nurse or tells them to look around the map instead.

While the tangible impact of this company will have on health care is clear, Yu envisions a wide range of uses in the business industry. “We are happy to sell as well as in a microcosm. As well as in a microcosm. We can also use the data you get in the system, track someone’s identity at the cashier or look through the data to how best to place their products around the store.”

Admittedly, Yu said, “there are some big privacy issues for that idea but it is a work of art.”

And “cool” may be an age word to describe Yu’s research. In addition to the benefits that this provides to the real world, the fact that they are using technology from the world of Harry Potter is an amazing feat on its own.

Smart Headlights

Applications stemming from the illumination and imaging sciences are providing the Smart Headlights that will be able to observe the world around the car and predict the operator’s actions accordingly.

For example, Tamburo, a Carnegie Mellon project scientist and a member of the team responsible for this product, explained that the headlights in the front of the car or that someone sees the other beacon of the vehicle to illuminate will be removed.

Now, when the headlights are on an incoming car, the headlight will sense the beam and not shine a light at the car when the beam is not needed. This is useful when both cars will not be the danger of glare created from headlight.

Tamburo said, “Theoretically, with our product, you could drive around with your lights on and not mess anything up.”

On a much smaller and more interesting scale, the headlights will be able to program the chip, they can provide specifications for the car to statistically drive to follow the least amount of light on all kinds of road. Tamburo believes the product will easily permeate the market because most cars on the road already have the ability to implement these headlights. It’s only a matter of time.

The list of impressive technologies developed and commercialized at Carnegie Mellon University goes on. From EEme, a company that teaches children in a fun way to maximize energy efficiency homes, to GlowRoad, a children’s game that brings video games into real life and helps develop scientific knowledge in the global setting.

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Online lectures debut at CMU

George Leckman

While the Massachusetts Institute of Technology, Stanford University, and Harvard University have reached huge popularity for their Massive Open Online Courses (MOOCs), Carnegie Mellon has been quietly developing its own set of technological learning tools which were on display Thursday in conjunction with the launch of Professor Suresh’s Simon Initiative.

Carnegie Mellon’s strength is in both technology and in understanding learning begs the question — why isn’t Carnegie Mellon known for its educational technology? And the answer — why isn’t Carnegie Mellon startup? It provides...a radical break from previous models...tions have shown that blended learning works well as online content — in-class...the Department of Education...technology-enhanced courses, some may be mitigated by pre-requisite...percentage of material is online...the Department of Education...the Department of Education...students present at the class. This new technology—Enhanced Hybrid MOOC program...s online learning but has not been seen in conjunction...at a cost to Carnegie Mellon’s rich history...as a center for data analytics and machine learning...the university has facilitated some courses which are...“Our main goal is to make...the Maruder’s Map from Harry Potter a reality.”

Acenar, the company that focuses on computer science, began last year as a Carnegie Mellon startup. It provides an easily customizable approach for professors to create technology-enhanced courses, framework for end user adoption and from Carnegie Mellon University professors. The program the chip, they can provide specifications for the car to statistically drive to follow the least amount of light on all kinds of road. Tamburo believes the product will easily permeate the market because most cars on the road already have the ability to implement these headlights. It’s only a matter of time.

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from BOSTON COLLEGE

semester online
Student involvement needed in appointment of SBVP

Junior electrical and computer engineering major Ian Glasner recently took on the role of student body vice president after former student body vice president Peter Masters, junior international relations major, stepped down from his position.

While The Tartan appreciates the shift of appointments from one position to another, the student body should have been given the chance to choose a new student body vice president. Instead, Student Senate chose to appoint a new student vice president without the opportunity for the student body to vote.

Currently, Student Senate’s bylaws dictate that the student body must approve any potential candidates for the position of student body vice president. This approval process has never been bypassed before, and it is not explained why such a position change was necessary.

Student Body President Lindsay MacGillivray and Student Senate President Daniel Shuttleworth have been approved by Student Senate, and any letter. Letters must be submitted by 5 p.m. on the Wednesday before publication by mail or to contact@thetartan.org.

The Tartan Editorial Staff reserves the right to withhold from publication letters that are libelous, untruthful, or vituperative in nature. The Tartan makes no representation that letters are offered in good faith.

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Jordan Green, CHD, LTE, Junior

"Don’t lose the time you have to make changes.”

Lucy Soe, Computer Science, Sophomore

"Support students and groups and activism.

Takesha Dayrell, Environmental Science, Freshman

"Make more time for thinking about social issues, well-being and developing new ways to help us.

Brennan Balsa, ECE, Junior

"Let students to who have more clear than me.

Danes Kerbit, Archit, Sophomore

"The president should support students who are doing the academic struggles at CMU.

Braden Kelner, CHD, LTE, Forum Editor

"Mr. Suresh should do things to help the victims.

Darren Kerfoot

"The president should support students who are doing the academic struggles at CMU.”

CHINA

What advice would you give Suresh now that he is inaugurated?

A PERSON’S OPINION

The invitational oneweek event for President Suresh Saruk’s week was to be held. So asked

November 18, 2013 • The Tartan

the tartan.org/forum • A9

Ask for consent every step of the way

China must better aid typhoon victims

On Nov. 3, Typhoon Haiyan ravaged and tore into the Philippines. The typhoon made landfall near the city of Tacloban, and some estimates put its wind at 165 miles per hour, hitting hard to their airport.

Meanwhile, the Chinese are donating a total of 15 million, far less than any of the above operations. This figure only appeared after their initial donation of $100,000—a measly sum for such a large, prosperous country. The donation contrasts with China’s major terrors in a less select African countries and their large relief effort after the Paki-

China, however, seems to be happy with where relations stand with the Philippines. Hence, it has contributed a negligible amount of aid, adding to child related. Gen-

inally, if Chinese aid were not seeing, they could perform their half of the big plan. It would mean help these efforts because they would look like strong leaders and could help to diffuse ter-

Disastrous locations and tension.

The U.S. once colonized the Philippines and argued over control of a small group of islands called the Spratly Islands. The Philippines, along with Japan and South Korea, have been the most aggres- sive claims for surrounding islands in the South China Sea. The U.S. has largely abated within the U.S. has nations that could help to diffuse these tensions and tension.

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In response to Typhoon Hai-

yang, the United States sent the USS George Washington aircraft carrier, filled with the ten with relief sup-

plies, to Tacloban. China is on the largest relief effort yet. Even the British, who don’t directly touch the Pacific, are sending their own aircraft carrier.

November 18, 2013 « The Tartan

China must better aid typhoon victims

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China must better aid typhoon victims

According to a 2013 CareerBuilder and Job, 46 percent of college students who use social media networks to screen poten-

tial candidates, from 27 per-

cent last year. Because companies are increasingly using social media weissel to determine who to hire, it makes sense that colleges would join them in deciding which prospect-

ive students to accept and which to deny. According to a Kaplan tele-

phone survey, 30 percent of college admissions have used a prospective student’s profile to gain more information about them.

A growing number of students are already using social media to gain informa-

tion about potential job candidates.

The leaders in the way teens use social media. Colleges can accurately judge students by their profiles because for many reasons: their unsustainability of the consequences of online posts. Before colleges begin to use this information, educators and students should come together to get hearing that the information that they post online can have in their lives. According to the Research Center, 59 percent of teen

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Men’s soccer team ends winning season with tough loss

WILLIAM PARK
Sports Editor

The No. 12 men’s soccer team’s NCAA Championship aspirations ended this Sunday in a 1–0 loss to No. 22 Montclair State University. On that rainy Pittsburgh afternoon, the Tartans couldn’t crack the tight Montclair defense.

The Tartans had many quality chances on goal, starting in the 25th minute. Senior forward Max Tassano was denied, but Montclair’s goalie Kevin Lynch made a great diving save to his right. The Tartans received a break when Montclair’s Kazari Trought was given a straight red card in the 24th minute. The Tartans took 12 shots in the game, and the Tartans couldn’t crack the defense.

In the second half, Montclair was content to sit back and defend. The Tartans maintained possession in the opposing third, but the margin for error was extremely small given how tight the Montclair defense was.

“Just made it tough for us and defended with everybody,” head coach Arron Lujan said. “We kept trying and trying — we had a few really good chances — and we just couldn’t put it away.”

Senior defender Ben Bryant was determined to carry his team into the next round. In the 70th minute, he single-handedly stopped a Montclair counterattack and dribbled the ball to the top solace. He beat his defender and fired a shot that went inches above the crossbar. "Bryant is one of six senior starters who played their final game. The Tartans will lose two forwards, Tassano and Chris Wysocki, who combined for 15 goals this season, as well as midfielders Mike Ferraco and Matt Sarett.

"To go out in a crucial game like today was tough, but they should be proud of what they’ve done," Lujan said. "It’s not easy to repeat what we did last year because we’re not surprising anyone.”

Lujan said, “We’ve come in and got to the same round in the NCAA Tournament that we did last year, I think, in a great accomplishment.”

To go out in a crucial game like today was tough, but they should be proud of what they’ve done," Lujan said. "We’ve come in and got to the same round in the NCAA Tournament that we did last year, I think, in a great accomplishment.”
The Carnegie Mellon football team opened its final game of the season against Case Western Reserve University on an optimistic note – but ultimately lost 35-32 last Saturday night.

After an impressive Carnegie Mellon defense stopped Case Western’s opening drive, senior quarterback Rob Kalkstein connected with junior wide receiver Tim Swanson for a 72-yard touchdown score.

The momentum did not last long, though. Two drives later, on fourth-and-eleven on the Carnegie Mellon 46-yard line, Case Western lined up in a punt formation but shocked the Tartans and pulled off a flea flicker that went for 29 yards and an improbable first down, setting up a tying score for Case.

After that, the momentum really seemed to roll in Case Western’s direction. A lost fumble by Carnegie Mellon’s special teams and impressive kick returns from Case led to a 28-10 deficit by the middle of the second quarter.

The lost fumble was symptomatic of shortcomings in the Carnegie Mellon kickoff return game. Five different kicks were dropped or fumbled on kickoffs, leading to poor field position.

In what turned out to be only a three-point loss, the field position battle probably made the difference.

Drives often started close to midfield, and the Case Western offense was inconsistent, relying on big plays as opposed to consistent positive plays to move down the field. The defense’s real Achilles’ heel throughout the game was the flea flicker. Flea flickers resulted in both the aforementioned long fourth-down conversion and a touchdown late in the game.

Senior wide receiver Tim Kikta makes a move against a Case Western defender. Kikta caught four of senior quarterback Rob Kalkstein’s 22 completed passes. Kalkstein finished the game with a career-high 327 passing yards, which makes him the school’s all-time passing leader.

The offensive line can’t be blamed, however. The blocking was great, and Kalkstein’s blind side was well protected throughout the entire game, thanks to a strong showing from the left tackle senior Alex Copeland.

Copeland wasn’t satisfied with his individual performance, and felt this was a game Carnegie Mellon could have won.

“This season was definitely a heartbreaker,” Butler said. “We had a lot of close games where we kept it tight and we couldn’t pull it out in the end. But I don’t regret coming here; I don’t regret playing here at all.”

It was a cruel ending to some great careers in Carnegie Mellon football. In addition to Butler and Copeland, quarterback Kalkstein ends his distinguished career. His 327 passing yards gave him a total of 5,664 yards for his career, setting a school record.

The 3-7 record doesn’t do justice to a team that consistently played hard and kept games close, but just didn’t have the luck to pull wins out in the end.
Women’s soccer season ends early in the NCAA tourney

Willian Park
Sports Editor

After a magical run into the national quarters of the NCAA Championships last season, the women’s soccer team fell short in its return to the tour- nament this year.

On Saturday, the Tartans ended their season with a 2–0 loss to York College of Pennsylva- nia in the first round of the NCAA Championships.

Expectations were high for this season. The Tartans opened the season ranked No. 5 in Division III, but after three straight losses to close the sea- son, the Tartans dropped out of the Top 25 ranking.

Throughout the season, the Tartans struggled to find their finishing touch. They would consistently outplay and out- shoot their opponents, but often couldn’t find the back of the net.

“This year, we felt a real need to make it to the NCAA and do well, and I think that pressure — all throughout the season — made it harder for us to perform well,” graduate- student goalkeeper Anna Albi said.

Although they could get by with weaker opponents, they struggled against tougher competition in the University Athletic Association (UAA) Conference.

Their finishing finally caught up to them against York in the second round. Veteran forward Santina Reid created multiple chances in the half. In the 58th minute, Reid, sophomore midfielder Laisa Fenderup played a great through ball to Reid on the right side. Reid passed back past her defender and found a left-footed shot that went just a bit off the near post.

York also created another scoring chance five minutes later, but a shot on the goal by penalty box buster Amanda Broderick (point-blank range) was saved by Reid. Reid blocked it just enough of her foot on the ball, and her ball landed safely in the hands of the York goalie.

It was a better first and for the Tartans, no second half.

“York’s really amazing to see how the program has come, skill-wise and cultural-wise,” Albi said. “Our culture is very different — much more competitive and much more serious about being a top-regional team than I was about football.”

Back in 2010, the team had a pedestrian 8–2–0 record and earned just a 23–1–3 record.

In addition to Albi, the Tartans lose two strong leaders from this season.

Rachel Centopani, who led the team in points with 10 goals and 11 assists, as well as Sammie Goyette, who played their final games on Saturday.

Senior forward Alex Ven- grette earned nine times the Most Improved, but remained unsigned in the 1–0 AUA conference.

The strength of this team is that many freshmen and younger players look ready to step up. First-year goalie Karie Lis- ton gained valuable playing time, earning a 3–2–3 record in goal, and looks ready to be the next starter for years to come.

Pendagast, who had four goals on the season, has emerged as a catalyst, and cre- ative offensive playmaker, and sophomore defensive midfielder Carissa Quinonez is an intimidating presence in the midfield, who also scored three goals.

First-year defenders Amel- ika Clark and Samantha Smith should form a strong back line for the team.

 leftover Martin a voicemail at 7:30 p.m. on Oct. 30. In this voicemail, Incognito directed Martin to leave York and the league.

But while Martin had left the team, he wanted to protect his teammates and his future in the league.

As an NFL player, Martin is under contract to the NFL for the 2012 season. If he does not go on the active roster, he will be quickly solved. Incog- nito had no comment when approached about the situation.

The solution will require a major paradigm shift in how the NFL treats players. But as with health concerns, these changes need to come from the bottom. Coach at the year’s, middle school, and even high school levels must do more to ensure that the relationship between players is one of camaraderie and mentorship instead of harassment and bullying.

As Incognito is declared out of the NFL, 2012 will be quickly solved. Incog- nito and Martin or any other NFL player, or for that matter, any athlete who have had their catering and institutional problems.

In 2012, the NFL will be quickly solved. Incog- nito and Martin or any other NFL player, or for that matter, any athlete who have had their"
3 Mariko Reid
Local jazz group comprised of Carnegie Mellon students plays an energetic show at Up.

4 SPACE gallery
The latest SPACE gallery exhibition showcases a range of photography pieces.

5 Jennifer Aylmer
The new addition to the School of Music teaching staff sits down with The Tartan.

6 Holiday movies
A helpful guide to the best of what Hollywood will offer up in the coming weeks.

7 Thor
The sequel to the 2011 hit features stunning effects and a few plot holes.

8 School of Drama
The School of Drama continues its year-long celebration of classic American theater with a production of You Can’t Take It With You.

regulars...

3 Advice
Everything you need to know about asserting one’s nap territory and your comfy shoulders.

7 Dollar Movie
AB Films presents a movie with Steve Carrell and another with Matt Damon.

11 Comics
This week’s comics are comically comic.

...diversions

13 Puzzles
A noble and true spirit will surely prevail against this week’s puzzles.

14 Horoscopes
Project your inner thoughts and feelings onto vaguely worded statements.

15 Calendar
Don’t be the only one not getting their fill of Pittsburgh’s arts and culture scene this week!
CMU students create jazz fusion

Mariko Reid Quintet mixes musical skill with energetic performances

On Thursday night, Carnegie Mellon students took Shadyside bar and restaurant Up by storm. The Mariko Reid Quintet played a series of jazzy pop classics ranging from a reworked version of “Once Upon a December” from the animated film Anastasia to old hip-hop favorites like “Just a Friend.” The group has described themselves as the “trippinest, flippenest, swaggiest, steaziest jazz-funk-hiphop-RnB-neo-soul-post-modern-sonic-exploration.”

The group is made up of five wildly talented Carnegie Mellon musicians: senior vocal performance major Mariko Reid, junior mechanical engineering major Matt Powell-Palm, junior composition major Stephen Murphy, senior information systems major Chris Lindsay, and senior double bass performance major Vince Galvan, standing in for Sam Lavery, a master’s student in human-computer interaction. Each performer contributed a layer that complemented the next. Reid’s talent easily translates from one genre to another: She has a strong voice cut with emotion that rises above her fellow musicians. On saxophone, Powell-Palm added a layer of smooth to the music that wasn’t showy: It built well, driving him into a state of shoulder-shuddering and feet-stomping vigor.

Chris Lindsay was remarkable on the drums. As Powell-Palm put it, “Drummers that talented at that age don’t exist in the world; he is so uniquely and phenomenally talented.” Lindsay’s solos were jaw-dropping, as was the control he displayed. He moved the music in a natural and masterful way that pulled listeners in. Steven Murphy on piano also kept the arrangements moving with energy, enthusiasm, and skill, while Galvan on bass added a bottom layer that pulled the parts together.

The group’s arrangements as a whole were fun, young, and alive. The feeling was very organic; the music grew in a loose process that the group attributes to the way it builds arrangements and creates shows as a whole. The venue was entirely engaged in calling out and dancing; listeners couldn’t avoid tapping their feet or bobbing along, at the very least. The group strives for this level of energy at all its performances. At a past show, according to Powell-Palm, he and a few audience members even got up and danced on tables.

It wasn’t only the quintet that performed that night: Audience members read slam poetry, freestyled, and sang with the band. Everyone was phenomenal and embraced the opportunity to join in. It was like stepping into a community in which every person standing next to you has some wonderful hidden talent, even if they didn’t get up and show it.

The community accurately reflected Carnegie Mellon, especially at the end of the show with the band’s performance of “Just a Friend,” which engrossed the whole room in freestyles, harmonies, and dancing.

The Mariko Reid Quintet has made a name for itself with shows around Pittsburgh, collaborations with local rappers, and an album compiled during last year’s SPIRIT fashion show. As the group members put it, the spring semester will “be poppin’.” Two of the members are in their senior year, and their plan is to go hard to the end — continuing to play, exploring the avant-garde genre, and trying to contribute to the music scene here at Carnegie Mellon.

This growth seems inevitable with Carnegie Mellon’s concentration of talented musicians inside and out of the College of Fine Arts, as well as the ability of music to “really just improve everything,” according to Powell-Palm. Powell-Palm spoke of “music to be an interactive experience” that is “good for the soul,” and of the quintet’s efforts to provide just that. The group will play another show at Up in December and plans to continue to perform there. These performances are definitely worth attending as open opportunities to engage with some great music. The Mariko Reid Quintet is a group to look out for in the future.

Gwen Luvara | Junior Staffwriter

Editor’s Note: Matt Powell-Palm is a junior staffwriter for The Tartan.

The Mariko Reid Quintet, comprised of Carnegie Mellon students across multiple disciplines, combines an array of genres including jazz and hip-hop in energetic and crowd-pleasing performances.
The latest exhibition at the SPACE gallery features work by a variety of photographers.

The latest exhibition at the SPACE gallery features work by a variety of photographers.

Photography occupies a realm both outside and within the confines of the contemporary art world. In this digital age, we encounter photography more than any other art medium. The vivid “realness” of a digital image, however, can create difficulties in distinguishing what a photograph is and what it isn’t.

In the SPACE gallery in downtown Pittsburgh, a photography exhibition curated by Carnegie Mellon alumna Jen Saffron (CFA ’91) explores the limits and abilities of photography through installation, which uses site-specific pieces to transform the meaning of the space. Featuring the work of five mid-career photographic artists, the exhibit explores how photography opens both figurative and literal lenses to new perspectives.

In conceiving the exhibition, Saffron began with an interest in exploring what constitutes a photograph. “The trick of photography is that it can take the three-dimensional and display it as two-dimensional, but it flattens out the original in the process. What’s more, photographs are therefore always a representative of the past, not the present.”

Although it is conceptually driven, Saffron emphasizes that this show is not a contemporary art show but rather a photography show — an important distinction, given the long history of photography as a medium with its own rules and boundaries separate from the art world.

The photographers involved are Nancy Andrews, Dennis Marsico, Annie O’Neill, Barbara Weissberger, and Carnegie Mellon adjunct professor of history Leo Hsu.

Unlike many SPACE shows, says Saffron, this exhibition is not about showcasing contemporary emerging artists with novel ideas, but rather a platform for established, mid-career professionals who have a deep knowledge of the practice and experience. Between the five of them, they have a profound understanding of photography as an interdisciplinary medium.

Hsu’s work in the show, a series titled Free to the People, focuses on the subject of the library, exploring it as a unique, semi-public space. His work for the project began in 2010, when the “library was in crisis,” and branches all around the nation were closing down and reducing hours due to overwhelming budget cuts.

Hsu’s strong personal connection to libraries motivated him to explore the space of the library conceptually through photographs. “I have always really loved and appreciated public libraries, and Pittsburgh itself has a long history of libraries with the Carnegie Library.” Hsu views libraries as a special space in an otherwise commercialized culture — one of the only places meant to be simply inhabited by all with no motivation to buy or sell.

Hsu’s photographs genuinely capture people at ease in the library and feature a range of subjects diverse in age, race, and expression. By taking an installation approach, Hsu’s photographs are given content that reflect his social ideas of the importance of libraries, and recreate the feeling of a library within the gallery environment. His work occupies a comfortable nook and takes a literal approach to recreating a library environment, highlighting a table, chairs, bookshelf, and couch that could have been straight out of Hunt Library.

The works of the four other photographers take a variety of different approaches. A travel photographer for The New York Times, Travel, and Leisure, Marsico’s project titled Age Specific focuses on exploring the issues confronting the 1960s generation of youth-centric ideology over 50 years later by juxtaposing portraits of a middle-aged woman with those of an infant.

O’Neill, a veteran photojournalist for LIFE magazine and the Pittsburgh Post-Gazette, and Andrews, an award-winning journalist and renowned former staff photographer at the White House, also have work in the show.

A photographic artist with a contemporary art background, Weissberger’s work approaches photography in an unusual way, creating digital photographic collages that distort real objects, challenging our ideas of perspective with images that generate organic abstractions out of simple subject matter.

Taken as a whole, the exhibition demonstrates that in spite of the overwhelming role photographs now play in a world where everyone has a smartphone and a camera, photography can still be a powerful tool when pushed to its limits. The idea that a photograph can only be a record of the past challenges our obsession with self-documentary; taking an installation approach shows all the aspects that are lost in the process of taking a photograph. Additionally, the role of the fourth dimension, time, in understanding the meaning of a static image is also addressed as the artists attempt to push the media.

The exhibition is a collaborative effort mounted by SPACE gallery in collaboration with the Pittsburgh Cultural Trust. Behind the Scenes will be showing through Jan. 26.

Behind the Scenes showcases emerging photographers with a variety of pieces.
Jennifer Aylmer leads a hectic but fulfilling career as both a performer and an assistant professor of voice at Carnegie Mellon. Outside the classroom, Aylmer frequently holds recitals, the most recent of which took place in Kresge Theatre on Nov. 8.
With Christmas displays up since two weeks before Halloween, the holiday movie season is almost upon us a little sooner than usual. The month between Thanksgiving and Christmas is one of the biggest times of the year for Hollywood, with studios releasing everything from Oscar bait to big-budget epics and family films. While it may be hard to see everything on your list this season, here are a few films that are definitely worth the trip to the theater.

**The Hunger Games: Catching Fire**
Nov. 22

The second film adaptation of Suzanne Collins’s popular book series, *The Hunger Games*, finds Katniss Everdeen (Jennifer Lawrence) once again facing seemingly insurmountable odds. After winning the 74th Hunger Games, she is given little time to rest with next year’s games on the horizon and rebellion brewing in the districts. Katniss and her fellow winner, Peeta Mellark (Josh Hutcherson), both hope to survive the ever-growing tensions across the post-apocalyptic nation of Panem. Featuring a supporting cast including Woody Harrelson and Philip Seymour Hoffman that complement the youthful leads, *The Hunger Games: Catching Fire* should be a strong continuation of the series.

**Saving Mr. Banks**
Dec. 13

*Saving Mr. Banks* tells the story of how Walt Disney (Tom Hanks) convinced author P.L. Travers (Emma Thompson) to sign over the film rights to her beloved character Mary Poppins, which she did with great reluctance that eventually turned to great regret. While the Disney Company’s hand in the making of the movie may be a sign that there will be heavy Walt Disney worship and multiple scenes that inexplicably take place at Disneyland, the film has already garnered a lot of early acclaim. Featuring a supporting cast that includes Paul Giamatti, Jason Schwartzman, and Colin Farrell, *Saving Mr. Banks* may just be the childlike tug your heartstrings will need this holiday season.

**Her**
Dec. 18

Written and directed by Hollywood iconoclast Spike Jonze, *Her* tells the story of Theodore Twombly (Joaquin Phoenix), a lonely man who falls in love with the female voice (Scarlett Johansson) from an advanced computer operating system. Jonze, whose previous films include *Adaptation, Being John Malkovich, and Where the Wild Things Are*, has a certain knack for telling these kinds of quirky tales, and *Her* will mark his solo screenwriting debut. In addition, the film’s soundtrack comes courtesy of none other than indie rock icons Arcade Fire, solidifying *Her*’s stance as the most indie movie you’ll see this holiday season.

**Anchorman 2: The Legend Continues**
Dec. 20

It’s been nine years, but the Channel 4 News Team is lathering on the Sex Panther and downing a last glass of Scotch to return for a new adventure. Details are hush-hush, but the sequel, once again written by star Will Ferrell and director Adam McKay, will see the return of the original cast as well as a nearly endless list of supporting roles and cameos that includes Kanye West, Sacha Baron Cohen, and Harrison Ford. Among the films to be released this holiday season, none looks more fun than *Anchorman 2*. Look for this film to shed a little afternoon delight on otherwise bleak winter days.

**The Wolf of Wall Street**
Dec. 25

Based on the memoir of the same name, *The Wolf of Wall Street* is the story of how young Jordan Belfort (Leonardo DiCaprio) fell under the spell of the bustling ’90s Wall Street, started a trading firm called Stratton Oakmont, made millions using highly illegal trading schemes, and thought he was utterly invincible throughout. As anyone would probably guess, the FBI wasn’t quite as taken in by his charm as others were. With the dream team of DiCaprio, director Martin Scorsese (*The Departed, Goodfellas*), and a screenplay by Boardwalk Empire creator Terence Winter — as well as a stellar supporting cast that includes Jonah Hill and Matthew McConaughey — *The Wolf of Wall Street* promises the sky and will most likely deliver. If you can only see one movie this holiday season, it should be this one.

**Joey Peiser** | Assistant Pillbox Editor

Josh Hutcherson (left) and Jennifer Lawrence promote one of the most highly anticipated film releases this season, *The Hunger Games: Catching Fire.*
Thor 2 offers dazzling visuals, problematic plot

The newest Marvel film surpasses its predecessor in many ways, but still has issues

Warning: This article contains spoilers for Thor, The Avengers, and Thor: The Dark World.

If you go to see Thor: The Dark World, prepare to get hammered by stunning visuals and intense action sequences. The newest Marvel film, a sequel to 2011’s Thor, was released last Friday.

The film follows Thor (Chris Hemsworth), a character based on the Norse god of thunder, and his mortal love Jane Foster (Natalie Portman) as they fight the forces of Malekith (Christopher Eccleston), the Dark Elf. Malekith is after a force known as the Aether, which Jane accidentally gets tangled up in when the boundaries between the nine realms of the universe are weakened.

A large part of the film takes place on Asgard, Thor’s home, which provides a beautiful backdrop and a welcome change from the almost entirely Earth-bound Marvel universe. Asgard is filled with flowing water and grand buildings, all set against the vast expanse of outer space.

The story is pretty straightforward with requisite action sequences peppered throughout. The events all lead up to a phenomenon called the convergence, when the gateways to each of the nine realms line up and become visible to the eye.

In addition, weak spots in the boundaries will transport anything that goes through them to another realm. These weak spots make the final battle especially exciting: Thor battles Malekith while they tumble and fall through random portals into the other realms.

While the premise of this film is stronger than its predecessor’s, the story is halting at points because there is almost too much going on at once. Odd lines of dialogue end scenes awkwardly and a hint at a love triangle is never fleshed out or directly addressed.

On that note, although the romance between Thor and Jane sets the action in motion, there’s no real depth to the relationship. For all the screen time the pair has, they never address the major issue between them: the fact that Jane is mortal and Thor will live for thousands of years.

Granted, they are in the midst of fighting evil, but everyone else around Thor brings it up, from his estranged brother Loki (Tom Hiddleston), to his father Odin (Anthony Hopkins), to his friend and implied love interest Sif (Jaimie Alexander).

Exposition is another subtle problem throughout the film. At the end of Thor, the Bifrost, a bridge between the various realms, is destroyed, trapping Thor in Asgard and separating him from Jane.

Thor was then seen in The Avengers, with no explanation as to how he got there or whether the Bifrost had been repaired. He did not reconnect with his lover until the beginning of The Dark World, and only then it was because he feared for her safety. Furthermore, there was almost no explanation as to how the Bifrost was repaired — only that Thor and his friends were fighting battles to restore order.

Too much exposition can kill a story, but perhaps a little more in the film would clear up a major question. The filmmakers could have replaced the ill-conceived love triangle with something that clarified or even furthered the story.

Acting-wise, Hiddleston stole the show again, portraying the trickster Loki with an electrifying mix of vulnerability and aggression. In one particularly memorable scene, Loki and Thor fight just like normal brothers, and Loki’s sharp wit matches each of Thor’s barbs.

Hemsworth excellently portrays Thor’s strength and fighting skills and transitions to more emotional scenes fairly well. Because he has chemistry with Portman, the filmmakers could have played up the relationship a little more, fleshing out why they are as a couple, since they haven’t actually had any time to do so.

Portman has a more challenging role than in the previous film, since she is suddenly thrust into another realm, but she fails to instill any reaction to this change in her character. Upon first stepping into Asgard, Jane seems unfazed by the glowing rainbow bridge and vast kingdom that lies in front of her.

In a film in which not everything is quite what it seems, one of the highlights is a character’s surprise appearance. It stayed under wraps very well, and is a nice nod to previous Marvel films. Make sure to stay through all of the credits so you don’t miss either of Marvel’s trademark bonus scenes.

Thor: The Dark World is a hearty sequel, serving up equal parts drama and action and even a bit of lighthearted humor at points. While imperfect, it proves to be entertaining enough for viewers to leave them on the edge of their seats, waiting for the next installment.

Mairéad Pettit | Staffwriter

film 7

The Way Way Back
Friday, Nov. 22
7:30 10

This coming-of-age story is about a teenage boy forced to go on a road trip with his family. Think you’ve seen this a million times before? Think again. The Way Way Back twists the traditionally overwritten narrative of the teenager and makes it funny and heartwarming. What starts out as an overbearing and obligatory family trip for 14-year-old Duncan (Liam James), his mother (Toni Collette), and her not-so-friendly boyfriend (Steve Carell) becomes a summer Duncan will never forget. Filled with incredible charm from its cast as well as its genuinely witty script, The Way Way Back is a fresh trip back to our younger years.

Elysium
Saturday, Nov. 23
7:30 10

It’s the year 2154, and the world is in ruins. Overpopulated and riddled with crime, Earth has become a dystopian hellhole for the majority of the human race, while the top tier has relocated to the pristine man-made station called Elysium, where health and wealth are reserved for the elite. The people of Earth are desperate for health care and hope to escape their seemingly hopeless world until an ordinary citizen named Max (Matt Damon) emerges as their one chance to bring justice. From the visionary director of District 9, Neill Blomkamp, Elysium is filled with jaw-dropping images and thrills that surpass the traditional blockbuster archetype by becoming a relevant commentary on current political arguments. Damon carries this heavy-handed film, making it entertaining and eye-opening.

McConomy Auditorium, University Center

Andie Park | Staffwriter
You Can't Take It With You

The world of You Can't Take It With You is heavily grounded in the spirit and humor of America’s Great Depression. The Carnegie Mellon University School of Drama’s production features a stellar cast of senior acting and musical theater students, who rose to the challenge of playing ‘30s-era characters.

The story is that of the family of Tony Kirby, a man who has the misfortune of marrying Alice Kirby. Alice is the daughter of a wealthy New York family, the family of Alexander H. Kirby, Sr., who is so concerned with the Kirby Corporation that he barely pays attention to his daughter. Alice, on the other hand, is a free-spirited artist who is more concerned with the joy of life than an accumulation of wealth.

The Kirby family is headed by Alexander H. Kirby, Sr., who is a typical New York businessman. He is concerned with the Kirby Corporation and does not pay much attention to his daughter, Alice. Alice is an artist and is more concerned with the joy of life than an accumulation of wealth.

The Kirby family’s house is filled with snobby, uptight relatives, including Alice’s brother-in-law, Ed. The house is a reflection of the Kirby family’s wealth and status, with a large dining room, a spacious living room, and a beautiful garden.

The play opens with Alice’s family looking for a new bride for her. They decide to invite a group of artists to the house, including a sculptor, a painter, and a writer. Alice, who is in love with one of the artists, is excited to have them at the house.

The artists are surprised by the Kirby family’s wealth and status, but they are also impressed by the Kirby family’s hospitality. They spend the evening socializing and making art, and they are impressed by the Kirby family’s art collection.

The play is a comedy, and it is full of slapstick humor and madcap antics. The Kirby family is especially comical, with their snobbishness and their concern with wealth.

The play is a success, and it is well-received by both the audience and the critics. It is a classic American comedy, and it is a great way to celebrate the spirit of America’s Great Depression.

The cast of characters includes:

- Alice Kirby (Senior acting major Claire Chapelli)
- Alexander H. Kirby, Sr. (Senior acting major Joe Mendick)
- Ed Kirby (Senior acting major Mitch Marois)
- Mrs. Kirby (Senior acting major Claire Chapelli)

The audience is really like another character,” said Rachel Keller, who portrayed Alice Kirby.

The audience is really like another character,” said Rachel Keller, who portrayed Alice Kirby. “It was great to see it on stage and hear the audience laugh.

The production is a great way to celebrate the spirit of America’s Great Depression, and it is a great way to experience classic American comedy.

The play is a success, and it is well-received by both the audience and the critics. It is a classic American comedy, and it is a great way to celebrate the spirit of America’s Great Depression.

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- Mrs. Kirby (Senior acting major Claire Chapelli)
Waltzes and polkas from the 19th century are celebrated today as a part of our modern culture. Join us as The Pittsburgh Symphony Orchestra and music director Manfred Honeck present lively works from Suppé, Beethoven and Strauss, with guest pianist Till Fellner. Whether you’re with the whole family or a group of friends, A Waltz Tradition is a great way to celebrate the Thanksgiving season in Pittsburgh.

To purchase tickets, visit pittsburghsymphony.org/university or call 412.392.4900.
**Hark, A Vagrant** by Kate Beaton

This Week on S**EXY TUDORS**

History blows unless it’s sexy!

Majesty, Lord Burghley is here to see you.

Send him in.

Madame, I fear our suspicions of Mary have been confirmed.

Cecil! Is that any way to present in front of your queen?

Majesty, I’m not very good at being sexy.

Do not test me.

Elizabeth’s kingdom will be mine!

Next week on **S**EXY TUDORS

kathrynmoira@gmail.com

harkavagrant.com

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**Piled Higher and Deeper** by Jorge Cham

How motivated you are to work.

Eager → Excited! → Panic! → Overwhelmed

How much work you have to do.

jorge@phdcomics.com

phdcomics.com
Email Signatures by Doghouse Diaries

SEVEN USES OF THE EMAIL SIGNATURE

To let people know your messages will be short, poorly typed and possibly incorrectly autocorrected.

Sent from my mobile device.

To let people know you work for a paranoid company that has also interestingly put trust in you to send confidential information via email:

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager.

To let people know you love quotes. Consider me informed.

To let people know how to track you down in case you get kidnapped.

Email@address.com * Cell 555-555-1111 * Home 555-555-2222 * Work 555-555-3333 * Blood Type A+ * Click to see my current location * I keep a key under the rug of my front door.

To show how much you like colors. Answer: you like them a lot.

To show people you’re so tech savvy that you know how to embed HTML in your signature so your company’s logo will display. Looks like the search for my new web developer is over.

To keep a public list of every online service you’ve ever signed up for. Thanks for all the ways I won’t be keeping in touch with you.

doghousediaries@gmail.com thedoghousediaries.com

Poorly Drawn Lines by Reza Farazmand

MOM

SWEETIE, I GOT YOU A PET BEE.

MOM, I’M ALLERGIC!

OH GOD, YOU HATE IT.

NO, IT’S JUST—

IT’S GREAT.

poorlydrawnlines@gmail.com poorlydrawnlines.com
Sudoku courtesy of www.opensky.ca/~jdhildeb/software/sudokugen/

Kakuro courtesy of www.KrazyDad.com

Fill all empty squares using numbers 1 to 9 so the sum of each row equals the clue on its left, and the sum of each column equals the clue above it. No number may be used in the same row or column more than once.

Solutions from Nov. 11

Crossword

Hard Difficulty

Medium Difficulty
<table>
<thead>
<tr>
<th>Horoscopes</th>
<th>Across</th>
<th>Down</th>
</tr>
</thead>
<tbody>
<tr>
<td>aries (march 21–april 19)</td>
<td>1. Part of MIT</td>
<td>1. Part of MIT</td>
</tr>
<tr>
<td></td>
<td>2. Don’t look at me!</td>
<td>2. Don’t look at me!</td>
</tr>
<tr>
<td></td>
<td>3. Horse of mixed color</td>
<td>3. Horse of mixed color</td>
</tr>
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<td></td>
<td>4. PC panic button</td>
<td>4. PC panic button</td>
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<td></td>
<td>5. Supported</td>
<td>5. Supported</td>
</tr>
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<td></td>
<td>8. Lip cosmetic</td>
<td>8. Lip cosmetic</td>
</tr>
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<td></td>
<td>11. Light purple</td>
<td>11. Light purple</td>
</tr>
<tr>
<td></td>
<td>12. OPEC member</td>
<td>12. OPEC member</td>
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<td></td>
<td>15. Title bestowed upon the wife of a raja</td>
<td>15. Title bestowed upon the wife of a raja</td>
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<td></td>
<td>17. Actor Keach</td>
<td>17. Actor Keach</td>
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<td>18. At the apex of</td>
<td>18. At the apex of</td>
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<td>19. Room in a casa</td>
<td>19. Room in a casa</td>
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<td></td>
<td>20. Like some ears</td>
<td>20. Like some ears</td>
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<td></td>
<td>21. ___-a-Sketch</td>
<td>21. ___-a-Sketch</td>
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<td></td>
<td>22. System of aircraft navigation</td>
<td>22. System of aircraft navigation</td>
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<tr>
<td></td>
<td>23. Swing around</td>
<td>23. Swing around</td>
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<tr>
<td></td>
<td>26. Latin word meaning “nothing”</td>
<td>26. Latin word meaning “nothing”</td>
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<td>27. Ancient linear unit</td>
<td>27. Ancient linear unit</td>
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<td>28. Pertaining to tactics</td>
<td>28. Pertaining to tactics</td>
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<td>29. Give ___ for one’s money</td>
<td>29. Give ___ for one’s money</td>
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<td>30. Imbibe</td>
<td>30. Imbibe</td>
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<td>31. Achy</td>
<td>31. Achy</td>
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<td>32. Unnoticed</td>
<td>32. Unnoticed</td>
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<td></td>
<td>33. Functional</td>
<td>33. Functional</td>
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<td>34. Ltr. holder</td>
<td>34. Ltr. holder</td>
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<td>35. Real-estate dealer</td>
<td>35. Real-estate dealer</td>
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<td>36. Idle talk</td>
<td>36. Idle talk</td>
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<td></td>
<td>37. Actress Sommer</td>
<td>37. Actress Sommer</td>
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<td></td>
<td>38. Mother of Calcutta</td>
<td>38. Mother of Calcutta</td>
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<tr>
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<td>39. ___ silly question...</td>
<td>39. ___ silly question...</td>
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<td>40. Class</td>
<td>40. Class</td>
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<td></td>
<td>41. 500 sheets</td>
<td>41. 500 sheets</td>
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<tr>
<td></td>
<td>42. Scott of “Charles in Charge”</td>
<td>42. Scott of “Charles in Charge”</td>
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<tr>
<td></td>
<td>43. Kidney enzyme</td>
<td>43. Kidney enzyme</td>
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<tr>
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<td>44. Years in old Rome</td>
<td>44. Years in old Rome</td>
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<td></td>
<td>45. Lounge</td>
<td>45. Lounge</td>
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<td>47. Lounges</td>
<td>47. Lounges</td>
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<td>48. Floor coverings</td>
<td>48. Floor coverings</td>
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<tr>
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<td>49. Ultimatum word</td>
<td>49. Ultimatum word</td>
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<td>50. Completed</td>
<td>50. Completed</td>
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<tr>
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<td>51. Not ___ many words</td>
<td>51. Not ___ many words</td>
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<td>52. Describe</td>
<td>52. Describe</td>
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<td>53. Child support?</td>
<td>53. Child support?</td>
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<td>54. “You’ve got mail” co.</td>
<td>54. “You’ve got mail” co.</td>
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<td>55. LAX posting</td>
<td>55. LAX posting</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Across</th>
<th>Down</th>
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</thead>
<tbody>
<tr>
<td>aries (march 21–april 19)</td>
<td>1. As to</td>
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<tr>
<td>taurus (april 20–may 20)</td>
<td>2. Vaporize</td>
</tr>
<tr>
<td>cancer (june 22–july 22)</td>
<td>3. Taylor of “Mystic Pizza”</td>
</tr>
<tr>
<td>leo (july 23–aug. 22)</td>
<td>4. Gailows loop</td>
</tr>
<tr>
<td>virgo (aug. 23–sept. 22)</td>
<td>5. Title bestowed upon the wife of a raja</td>
</tr>
<tr>
<td>scorpio (oct. 23–nov. 21)</td>
<td>6. Primordial giant in Norse myth</td>
</tr>
<tr>
<td>sagittarius (nov. 22–dec. 21)</td>
<td>7. Actor Keach</td>
</tr>
<tr>
<td>capricorn (dec. 22–jan. 19)</td>
<td>8. At the apex of</td>
</tr>
<tr>
<td>aquarius (jan. 20–feb. 18)</td>
<td>9. Room in a casa</td>
</tr>
<tr>
<td>pisces (feb. 19–march 20)</td>
<td>10. Like some ears</td>
</tr>
</tbody>
</table>

Kairavi Chahal | Comics Editor
**MONDAY 11.18.13**

**Israel Centeno Reading and Q & A.** Porter Hall A18A. 4:30 p.m.
Venezuelan writer Israel Centeno has been a writer-in-residence at the Pittsburgh branch of City of Asylum since 2011. Centeno will read from **Criaturas de la noche**, his collection of short stories, and his novel, **Bajo las Hojas**. The reading will be presented in Spanish with a bilingual English and Spanish Q & A session to follow.

**Movie Screening: Inequality for All.**
McConomy Auditorium. 5:15 p.m.
Jacob Kornbluth’s documentary **Inequality for All** explores widening income inequality in the United States. In particular, the film focuses on Robert Reich — a professor at the University of California, Berkeley and former Labor Secretary under President Clinton — who has made a lifelong commitment to building a just economy.

**School of Architecture Series.** Carnegie Lecture Hall. 6:30 p.m.
Witold Rybczynski, professor emeritus at the University of Pennsylvania and award-winning writer on architecture and urbanism, will give a talk titled “How Architecture Works.”

**WEDNESDAY 11.20.13**

**The Nina Variations.** Helen Wayne Rauh Studio Theater, Purnell Center for the Arts. 8 p.m.
The School of Drama presents **The Nina Variations**, Steven Dietz’s contemporary interpretation of the final scene between lovers Nina and Treplev in Anton Chekhov’s **The Seagull**. Performances will take place Wednesday through Saturday this week. Student discounts are available.

**THURSDAY 11.21.13**

**The Curated Arts Experience.** Hamburg Hall 1001. Noon.
Ceci Dadisman, director of marketing and public relations at the Palm Beach Opera, will speak as part of the Masters of Arts Management (MAM) Lecture Series. In a talk titled “The Curated Arts Experience,” Dadisman will discuss how to harness the intersection of social media and technology with arts experiences to enhance audience engagement.

**SATURDAY 11.23.13**

**Bhangra in the Burgh.** Soldiers & Sailors Memorial Hall. 6:30 p.m.
The annual bhangra competition comes to Pittsburgh once again for a colorful display of the Punjabi folk dance. Student tickets are $10.

**ONGOING**

**You Can’t Take It With You.** Phillip Chosky Theater, Purnell Center for the Arts. Through Saturday.
The School of Drama presents **You Can’t Take It With You**, a 1937 Pulitzer-Prize-winning screwball comedy set against the backdrop of the Great Depression and directed by Raymond W. Smith Professor of Drama Barbara MacKenzie-Wood. When two lovers from very different backgrounds introduce their families — one free-spirited and one conservative — a series of hilarious events ensues. Discounts are available for students.

**Alien She.** Miller Gallery (Purnell Center for the Arts).
Through Feb. 16.
This exhibit examines the influence of Riot Grrrl, an underground feminist punk rock movement that surfaced in the '90s, on artists and cultural producers today. For more information, visit millergallery.cfa.cmu.edu.

The biennial Carnegie International brings the world art scene to Pittsburgh in a large exhibition of diverse works. This year’s exhibition features 35 artists and represents 19 countries. For more information, visit cmoa.org.

Compiled by Rachel Cohen | Pillbox Editor

Want your event here?
Email calendar@thetartan.org.
The Treblemakers, Carnegie Mellon’s newest coed a cappella group, performed at Skibo Café on Thursday evening in an event hosted by AB Skibo. Sophomore chemical engineering major Adam Simpson (pictured above) wailed a solo for the audience.