Tech firm donates $35 million, seeks student recognition

New faculty lunch program created

CMU researchers at NREC leave for future at Uber

Department of Defense renews SEI contract for $1.73B

BRAIN HUB scientists study neural imaging - A4

NFL teams' prospects change after draft - A10

Me and Earl and the Dying Girl showcases Pittsburgh - B5

PILLOX

On Monday, July 24, Carnegie Mellon University announced a $35 million donation, the largest ever received by the university, from tech giant TCS to create a new student lunch program for computer science students. The donation is in honor of TCS’ 50th anniversary and includes $14 million in funding over five years. The program, called Faculty Student Lunch, will be piloted throughout the fall semester and is expected to continue throughout the academic year.

The program, which is conceptualized by se- nior information systems major Eric TrimBoli and sophomore computer science major Eric Zhu, the program aims to strengthen relationships between the faculty and student body. Zhu serves as the chair of the Academic Affairs Committee for Senate, and from that post, he and his colleagues have coordinated with Dean of Acad- emic Affairs Gina Casalonge and Vice President Amy Burkert to make the program a reality. “Through the program, students will have the opportunity to get a free lunch at the Schatz Dining Room between 11:30 a.m. and 2 p.m. with a fac- ulty member of their choice. The program will provide a struc- tured opportunity to help students make a connection with a faculty member who has opted in to the program,” Casalonge wrote in an email to The Tartan.

“Developing relationships with faculty outside the class- room can further students’ educational goals through opportunities like undergraduate research, doing community outreach and service, or preparing for graduate school or ca- reer after CMU.”

Similar programs exist at many of Carnegie Mellon’s peer institutions, including Princeton University, Dart- mouth College and the University of Pennsylvania, according to Zhu. He said that compared to the students at these universi- ties and colleges, students at Carnegie Mellon tend to be less connected to the profes- sors, often notable research- ers in their respective fields. “These relationships aren’t built during office hours, which are used at CMU for getting extra learning and problem sets in. Students are missing out on social and senior year, when they fi- nally talk to professors outside of class,” Zhu said.

One of the goals of the program is to weaken the perception among students that is extremely competitive.

BRAIN WALSH

News Editor

The United States Department of Defense renewed its contract with the Carnegie Mellon Software Engineering Institute (SEI) this summer for $1.73 billion. This is over twice the value of the previous contract agreement the SEI made with the government over five years ago.

As per the school’s part of the agreement, the SEI will provide critical services to the United States govern- ment. The intention is to help increase the reliability and security of government software systems. Paul Nielsen, SEI CEO, said in a university press release that “this new contract guarantees that the SEI can continue to develop breakthrough tech- nologies in collaboration with Carnegie Mellon University, the Department of Defense, and our industry partners. This contract renewal may come as a relief, as the past five years, Carnegie Mellon has experienced problems with funding. "Like many colleges and universities, we faced the government shutdown, de- creasing federal funding due to the sequestration and rising costs associated with growth and expansion,” Chief Finan- cial Officer Amit Kahanpur- Ahar said in his 2014 fiscal report for the university. As funding continued by noting that even bringing in more talented in- dividuals has become a challenge. The move will allow more talented individuals to benefit from the education hiring climate is extremely competitive.

Last year’s fiscal shortages motivated University Presi- dent Dr. Subra Suresh to raise money for the university, in- cluding by way of government contracts. In addition to these contracts, among which is a small one with the Federal
**Campus News in Brief**

**Simon Initiative hires learning engineer Law**

Carnegie Mellon's Simon Initiative, focused on education research and the science behind learning, recently hired learning engineer Kimberly Law. Law's position is supported by a two-year, $1 million grant from the Carnegie Corporation of New York. The Simon Initiative hopes to overcome some of the difficulties presented by technology-enhanced learning (TEL). Law's role will be to develop new TEL courses in statistics in computer science, drawing on a backdrop at the National Science Foundation (NSF) awarded assistant professor of biomedial engineering Stephen Chan, assistant professor of electrical and computer engineering and biomedical engineering Byun Yu, and University of Pittsburgh associate professor of Bioengineering Aaron Boston an $869,000 grant to study how variability in movement is encoded in the brain. “These teams are building on creative ideas from within and beyond neuroscience,” said Kenneth Whang, NSF program director in the Computer & Information Science & Engineering Directate, in a university news release. “We’re seeing innovation in improving cognitive and neural systems research. The researchers will need to overcome the barriers to solving these problems.”

**Brainhub engineers receive NSF grant**

In mid-August, the National Science Foundation (NSF) awarded a two-year, $1 million, to support cognitive and neural systems research. The researchers will need to overcome the barriers to solving these problems.

**Corrections & Clarifications**

If you would like to submit a correction or clarification, please email The Tartan at纠正corrections@thetartan.org with your inquiry, as well as the date of the issue and the name of the article. We will publish the correction or clarification in the next issue and publish it online.

**WEATHER**

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**SOURCE:** www.weather.com

**Statistically Speaking**

- The number of students from California represented, as compared to 176 students from Pennsylvania.
- The percentage of women in the class of 2019, making it one of the most diverse in Carnegie Mellon's history.
- The percentage of students heading from outside of the United States to attend Carnegie Mellon.
- The number of Hispanic students in the class of 2019, making it the class with the largest number of Hispanic students in six years.

**Compiled by Brian Trimboli**

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— Amir Rahnamay-Azar Carnegie Mellon CFO

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**Gecko-like adhesives offer variety of product applications**

Researchers at the University of Toronto teamed up to create new 3D imaging technology that could help in the fight against cancer — a trait that many other depth-sensing cameras and 3D sensors lack. The research team included faculty members and students from the University of Toronto, the University of Nantes, an associate professor at Carnegie Mellon University, Willem Whittaker, a professor of robotics at Carnegie Mellon University; Wil- liam Rose Kutulakos, a professor at the University of Toronto. The paper was written by professor Paulo de Souza Arach, a doctoral candidate at Carnegie Mellon University, and Matthew E. O’Hara to date in computer science at the University of Toronto.

The population of depth-sensing cameras has skyrocketed in recent years, with the increasing prevalence of virtual reality. Many more have come into use, and many others have been developed for further use. Researcher Cassie, which is powered by hydrogen peroxide, is able to work for up to 12 hours on a single charge and could be powered by hydrogen per- oxides. The researchers blame this on the impossibility of creating a self-healing material that could provide spaceships with another layer of defense against debris. Currently, spaceships can be damaged with a single burn, which has led to the development of a new type of self-healing material. The Sydney Morning Her- ald recently reported that scientists at Carnegie Mellon University; and Kyriakos Achar, a doctoral candidate at Carnegie Mellon University; and Matthew E. O’Hara to date in computer science at the University of Toronto.

**Depth cameras project a pattern of dots and lines over a scene in order to capture it.** By looking at this pattern, researchers can calculate the 3-D contours of a scene by analyzing the pattern deformation and the time it takes the light to re- flect. The cameras are usually washed out by dust, which is why they are not used in projects commonly used in depth cameras. In order to

**Carnegie Mellon researchers have used micro-sensors to study the major pathways of the basal ganglia, a portion of the brain responsible for movement.**

Neurologic diseases, such as Parkinson’s and Huntington’s disease, affect millions of people worldwide, making them the subject of ongoing research. In the United States alone, Huntington’s disease affects nearly 30,000 people, according to the Family Can- cer Alliance, whereas Parkinson’s affects approximately one million, according to the Parkinson’s Research Founda- tion. The prevalence of these diseases provides a clear need for understanding the mechanisms behind the dis- eases.

**It’s a typical afternoon at the zoo, and you find yourself looking at the exhibits of reptiles and amphibians in misty enclosures and exotic habitats. As one of the displays you notice a gecko crawling on a window with re- membering the snake behind the glass.**

**GLYCO-ENZYMES**

**A4 • thetartan.org/scitech The Tartan**
Although embalming is known as the standard method of preservation for the funeral business, in my own work, I have aimed at developing a manufacturing process that can produce large numbers of synthetic adsorbs in high yields with low cost. Sitti said. While other research groups have also attempted to make synthetic gecko adhesives, their performance does not meet the caliber of Sitti’s due to the presence of the finite geometry and design of the fibers. In collaboration with one of his PhD students, Sitti founded nanoGriptech, a company for his synthetic gecko adhesives. The company received funding and has been working on further improving its adhesive technology to create a product out into the market. “One of our findings suggests that the diffusion spectrum imaging and multi-shell imaging, were used to scan the brain of healthy individuals.”

Researchers develop depth sensing camera prototype

How things work: Embalming

New adhesive mimics gecko biology

August 31, 2015 • The Tartan

Researchers develop depth sensing camera prototype

Camer, from A4

to address this problem, the research team created a mathematical model that eliminates extraneous light using a pump to move more efficiently with light sources.

"It is an efficient, "We have a way of choosing the light rays we want to capture, and only those rays, the laser," Nairn said in a university press release. "We don’t need new imaging

processes that are not demanding too much power, or that don’t need a long processing time to eliminate the noise, because we don’t collect the noise. This is all done by the sensor." By using this model, a prototype was built that synthesizes a rolling-shutter camera, which can be used to detect only certain pixels in light. "Now we’ve not been able to see them in the brain human brain tissues," Nairn said in a university press release. "This opens the door to so many research and clinical opportunities.

The team’s research, which is patent pending, was funded by a National Science Foundation CAREER grant, the Army Research Laboratory, and the CNUP. The research also benefited from a grant by the National Science Foundation and was a visit by Dr. Verstynen of the Pittsburgh Zoo.

The research was supported by the National Science Foundation, the University of Minnesota, Natural Sciences and Engineering Research Council of Canada, and the U.S. Army Research Laboratory. The team presented their final project on August 10 in SIGGRAPH 2015, the International Conference on Computer Graphics and Interactive Techniques. August 31, 2015 • The Tartan

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The research could also have major implications in the fields of maps of space exploration. The camera could be used in robotics, visualizing dark environments, and in space missions, in polar regions of the moon, and even in the use of resorts to reduce false

The research, which was co-led by Whitaker commented on the potential of the technology, "This is an incredibly powerful way to use light and the precise, yet we haven’t been able to do that."
As reported by The Tartan last week, Niranjan Cullender, a junior electrical and computer engineer major at Carnegie Mellon, was charged by the Department of Justice for developing and distributing malware.

The story of Niranjan Cullender has been charged with malicious software activities. While it is certainly far from a comprehensive example to call this anything close to a systemic issue, it highlights a need for more prominent computer science ethics courses. This is not to disqualify the classes that already exist: Students who are interested have the opportunity to take classes that grapple with very difficult philosophical and ethical issues surrounding the development of technology with classes like Ethics in Policy, Issues and Computing. That is certainly a necessary and great course to offer, but it is insufficient. Carnegie Mellon should offer a course in more practical computer ethics, like the impacts of malicious software.

While most people probably haven’t even heard of malware, bad classes do more than drive this point home. Firstly, many people refuse to engage with ethical issues because they do not have the vocabulary or confidence in their ability to discuss them. Ethics classes can address these concerns by offering some background on the issues. Beyond just detailing an analysis of the issues surrounding the acts themselves, such classes could address the consequences of identity theft or the legal consequences, ethics courses create a safe space for moral disagreement and foster discourse using the background that students gain from the class. This helps foster critical thinking about issues and leads to ethics becoming more than a vague notion of badness surrounding an action.

While it isn’t true for many if any field, the relative inaccessibility of computer science leaves many questions unanswered. Many of those involve interesting areas of philosophy. However, this does not mean that these issues should comprise all of the ethics education computer science students receive. As technology increasingly impacts areas of our lives, thinking critically about the role of ethics for computer scientists and programmers is important to computer science and engineering as a whole.

GMU computer science should stress ethics

Hugo Awards need to embrace diversity

Last summer, gamers handed together in an attempt to push independent game developer Zak Quinn out of the industry. Quinn was targeted by haters online, and a roll-call blog post went viral by a former developer who used an ungodly example of misogyny in a way that many would know as “gaslighting,” an example of rampant sexism in the video game industry.

Now, science fiction writers are facing their own version of gatekeeping. In April, the finalists for the prestigious Hugo Awards were announced. The Hugo Awards are one of science fiction’s highest prizes for novels, and this year’s finalists are determined by a ballot. Any number of the 2014, 2015, or 2016 World Science Fiction Conventions (Worldcon) can cast their vote, meaning that anyone who paid the $40 membership fee has a vote.

This year, a fringe movement of right-wing voters — the self-named “Sad Puppies,” a play on well-known Liberal “#Dwighthasgone” — infiltrated the convention to bring their picks to the top. The group, headed by conservative authors Brad T. Soper, Larry Correia, and Vox Day, pushed Worldcon members to vote for a specific shortlist of authors.

Although this is the third year that the Sad Puppies have tried to influence the Hugo Awards, this is the first year that their efforts have had a noticeable impact. Three of the five best novella nominations are on the Sad Puppies’ shortlist, and the Best Novellists nomination match the Sad Puppies’ pocky choice.

The authors chosen, many say, are not representative of science fiction, a whole and crowd out progressive and minority authors. John C. Wright, for example, one of the authors nominated for his novella, is known for his complicit homophone-venomous vampires.

The Sad Puppies’ undeniable influence on the Hugo Awards is a stark warning for a society gradually moving in the general direction of political correctness.

The Sad Puppies represent a fringe group that is fighting against a science fiction scene that is more diverse than it has ever been.

Worldcon must respond to this system, making it harder for one group to sway the nominations. Beyond that, however, science fiction and fantasy fans and authors should fight against such contagious righteous zeal by remaining unmoved to make Worldcon and the Hugo Awards more inclusive of diverse, progressive authors.

Fans should embrace the more nuanced science fiction and fantasy created by the younger, more diverse crowd of authors that would not have gained the same kind of recognition in the sixties or seventies, rather than trying to strike it down.

GMU computer science should stress ethics

Hugo Awards need to embrace diversity

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Orientation staff must improve diversity to better reflect CMU life

VINITI WISNIAWKAN
Junior Electrical

For an incoming freshman student at Carnegie Mellon, Orientation is an important time to start your college experience, make new friends and learn about your iden-
tity. First-year students are guided through the node of entry, a curricular volunteer from the Department of Student Affairs, known as Orientation Leaders (OLs), and Head Orientation Counselors (HOCs), the orientation leaders in charge of ensuring that every first-year housing community has student housing and Ols.

These positions are complemented
by paid RA, and in certain communities, mentors or ambassadors unaffiliated with Orientation staff. For many first-year students, their Ols, and HOCs form the first point of contact during their first year at Carnegie Mellon and set a foundation for the rest of their time at our school.

Carnegie Mellon prides itself on its diversity. The University's Diverse Resources Committee, a community of students, faculty, and the university, to help make sure these students had a comfortable experience from the time they arrived on campus. The first-year class is a diverse one, with students from 69 unique countries. According to a report conducted by the Pew Research Center, there is a negative correlation between the share of immigrants in a country and the share of people who think immigrants are a burden on the economy. Many are working well below a minimal wage, losing their jobs, and struggling to support a $15 per hour minimum wage. Increasing wages and bene-
fits, however, cripples small companies, many of which may have to pass these costs on to consumers.

A side effect of this dilemma is a workaholic culture of students who are unavail-
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"I'm excited to complete my locked list of things to do in Pittsburgh. This city as much to offer, and my friends and I plan to take advantage of the many museums and destinations and attractions.

The Tartan is gearing up for its first week of classes, so we asked students, What are you most looking forward to this semester?"
Did you get a 31 or better on the ACT?

Did you get a 700 or better on the Math Portion of the SAT?

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As the NFL season approaches, the short season and massive rosters in football always create quite a challenge for coaches as the year goes along. This article will look at two teams who may have some surprises in store — one team to impress and one to regress.

Minnesota Vikings

The Vikings are relying on second-year quarterback Teddy Bridgewater in a year similar to his last season. The good news for Minnesota fans is that Bridgewater's success is an increasingly likely proposition. Bridgewater’s poise in a collapsing pocket and post-snap accuracy are hallmarks of successful quarterbacks. While Bridgewater is not as mobile as Teddy Bridgewater, improved vastly last season went on. Minnesota’s offensive acquisition of wide receiver Mike Wallace helps give Bridgewater a deep threat to open up more space for the medium range the quarterback is at.

The return of running back Adrian Peterson may help, but the team seems to have quashed doubts letting him play after his run-in with the law for abusing a child last fall.

On the defensive side, the Vikings’ youth means the defense will continue to improve. Cornerback Xavier Rhodes, safety Harrison Smith, linebacker Anthony Barr, and defensive end Danielle Griffer are all likely to improve in their third year, last year, and former, shorter, established veterans and the coaching ability of head coach Mike Zimmer with his incredible ability to disrupt offenses and defenses none too necessary to note for getting up on the scoreboard in big plays. This defense could be as good next year as this year.

There are still obstacles for the Vikings, though, as offensive line is atrocious. While running back Jerick McKinnon and Bridgewater can excel behind a bad line, they could be up for a tough year. Guys like left tackle Matt Kalil and center John Sullivan are problematic without a solid offensive line.

Despite eighth ranking, CMU Football remains optimistic

**Rising Vikings and waning Broncos might shift standings**

**Diving coach Alicia Gorman named Director of Aquatics**

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Drama on *The Bachelorette*
ABC’s matchmaking show finds itself in a new role that might affect the future of the franchise • B4

*Me and Earl and the Dying Girl*
Spot your favorite Pittsburgh landmarks in comedy coming-of-age film released this summer • B5

Off-campus diversions
Looking for Pittsburgh activities to help you blow off steam? We have a few ideas • B9
...this week only

3 Talent Show  First-year students show us what they’ve got.

4 Bachelorette  The popular television show might be a rose, but roses come with thorns.

5 Me and Earl and the Dying Girl  Pittsburgh shows on the silver screen.

6 Inside Out  The Pixar movie makes your feelings come out.

7 Primary Politics  Trump is trumping the media.

8 Campus Events  Find out what’s happening around campus.

10 This Week in Movies  Learn what movies you could be cast in.

regulars...

3 Advice  Everything you need to know about balancing your first year at Carnegie Mellon.

7 Movies  AB presents two movies this weekend in McConomy.

11 Comics  Read it and weep from laughter. Or don’t.

...diversions

13 Puzzles  Maybe you’ll figure out these puzzles when you can’t figure out your life.

14 Horoscopes  Think forward. Fashion forward.

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Class of 2019+ exhibits talent
First year showcase on Saturday night brings variety of passions

On Saturday night, students of the class of 2019+, Orientation staff and members of the Carnegie Mellon community had the privilege of witnessing just a few of the talents of those in the first year class. After a week of Orientation craziness — Playfair, House Wars, and information sessions galore — hundreds of people gathered in the Baker Lawn tent to celebrate the diversity of the passions present on campus.

The evening started out with an endearing and heartfelt performance by two Boss House students, Ghalyea Alsanea, pianist, and Johanna McAllister, vocalist. They sang a rendition of Regina Spektor’s Folding Chair. Though there were a few bumps along the way, the duo charmed the audiences when they incorporated a hill cheer into a part of the song, demonstrating to the crowd that house spirit was still alive and well.

Next was a first-year from Donner House named Riki Khorana, who explained to the crowd his desire to transform their ideas about ukuleles. Not only was the sound that Khorana proceeded to play a wildly virtuosic classical piece. Not only was the sound that Khorana coaxed out of the ukulele amazing, but he was a dynamic and captivating showman as well. Like so many of last night’s performers, his academic interests, which include engineering, are focused in a completely different area than the talent he demonstrated.

Morewood E-tower first-year Gaurav Balakrishnan also played ukulele while singing a very beautiful Coldplay song. His soothing voice was comforting and wonderful to listen to.

The theme of home — new and old — was present throughout the showcase. Slam poet Hamza Qureshi, Mudge first year, recited a spoken word poem that he had written the night before he left to come to Carnegie Mellon. Before his performance began, he explained to everyone in the tent that they should snap if they felt connected to what he was saying. Over the course of the piece, Qureshi eloquently described his experience of saying goodbye, and how when faced with saying goodbye an individual realizes things they might not have otherwise. As the poem went on, more and more individuals inside the tent snapped their appreciation. After his performance, Qureshi invited those who wanted to learn more about slam poetry to ask him about it, inviting members of the community to come enjoy and get engaged in a passion of his.

Other highlights of the evening included an impressive hula hoop performance by Allison Black that had individuals whooping and hollering, two very different dance performances by Yuyan Sun and Janet Lee, a yo-yo performance by Alex Nelson, classical guitar by Joseph Kim, show tunes sung by Daniel Brennan and Emily Gallagher, and the performance of an original song by Nicole Korogodsky.

The evening wrapped up with the orientation slideshow, giving students the ability to reflect on their jam packed week and the amazing, passionate individuals they are embarking on a university adventure with. Support, enthusiasm, and kindness radiated throughout the event.

Lula Beresford | Pillbox Editor

Advice for awkward people
About balancing and stuff

Greetings, Joshua

I am a first year in the class of 2019(±?), majoring in 15-112 and Red 9, and I am experiencing some major issues. Orientation was such a stimulating experience, but this week, classes are going to start. Throughout my life, I have been an avid collector of street art, such as lightly chewed gum, mint-condition bottle caps, and blurry iPhone pictures of graffiti.

I am having major anxiety because I do not know whether or not I will be able to balance my passion for collecting and my passion for my school work. Could you provide me with some advice, oh wise one?

Signed,
Majorly Anxious Girl,
Pacing In Earnest

Dear MAGPIE,

College is a balancing act. There are hundreds of things vying for your attention at any given time, and it’s part of the growing process to figure out what to focus on and what can fall by the wayside. Maybe you’ll find that you need to concentrate your collecting to just bottle caps and photos and let the gum go. Or maybe not.

What you will find, though, is that being very busy forces you to prioritize, and this prioritization allows you insight into your true passions.

So collect that street art, code some amazing games of Tetris, and use all $810 of those Dinex dollars on chips and cheesecake. This is your year. You’ve got this.

Or just get some Trident from Entropy, Joshua Brown.
The Bachelor franchise lacks diversity

This summer’s season of *The Bachelorette* demonstrates power of show’s platform

ABC’s *The Bachelor* franchise is one that continues to endure years after its conception. A show in which one individual seeks true love by combing through and kissing a wide variety of impossibly beautiful suitors, *The Bachelor* and its spin-off *The Bachelorette* have a devoted fan following and viewership continues to skyrocket. As one of the franchise’s devoted fans, I am overeager when it comes to trying to predict the winner, avoiding online spoilers, and grabbing snacks for viewing parties with friends, but I also spend time thinking about the issues that are front and center within the franchise, including diversity issues. There is little to no diversity, and there hasn’t been since the nation’s introduction to *The Bachelor, The Bachelorette*, or any other spin-off show.

This summer’s bachelorette was no exception. In fact, since the beginning of the show twelve years ago, only one star, of either *The Bachelor or The Bachelorette*, was a person of color. After a rise in the number of contestants of minority backgrounds in the 2013 to 2014 seasons — to two or three out of roughly 30 — that number has once again slipped to one or two per season. Even then, minority contestants are almost always voted off immediately. During Chris Soules’ season last winter, Saturday Night Live aired a skit making fun of diversity issues on *The Bachelor,* claiming that all individuals of color were voted off by the fourth week. It’s hard to understand why, in this day and age, ABC and franchise producers find it challenging to come up with a diverse cast. In fact, *The Bachelor* has faced two separate lawsuits relating to problems of diversity by potential contestants. The franchise, however, sticks by its First Amendment rights to cast whoever it wants on the television show.

The show is also exclusively heteronormative. There is nothing wrong with a male bachelor looking for love from a big group of women — besides, you know, how weird a situation it is — but after 12 years and almost 20 seasons, it is necessary and important to have a bachelor or bachelorette contestant who identifies as bisexual or gay. As a huge cultural staple, whatever that says about our nation, it would be my hope that this bizarre and ridiculous television show could attempt to represent more Americans.

This season’s bachelorette was Kaitlyn Bristowe, a dance instructor from Vancouver, whose funny laugh and inappropriate jokes made her a favorite contestant from Chris Soules’ season. While diversity issues persisted, Kaitlyn’s season was able to address a serious issue that came up during the course of the show’s run. While the show does not shy away from showing some pretty serious make-out sessions, the topic of more “serious” hook-ups, and sex, go unspoken.

Toward the end of each season, the last few remaining contestants are allowed to spend a night in the “fantasy suite” with the Bachelorette. This is a chance for them to spend the night together and have some off-camera time, and, presumably, sleep together if they so desire.

While this is the implication, Bristowe is the first bachelorette to admit to sleeping with someone on the show, in an episode where she slept with one of her potential suitors halfway through the season. This generated a lot of hate mail for Bristowe, and a lot of wildly offensive slut shaming from the American people. In the “After the Final Rose” special, an episode that airs after the bachelorette has picked a man, Bristowe and host Chris Harrison shared a lot of the terrible tweets and messages that Bristowe had received as a result of her confession. While reading them out loud on live television was a bit of a strange choice, the amount of positive feedback and support for Bristowe was impressive. Bristowe defended her actions and her decisions with poise, and called out her haters for their bigoted, shameful, and hateful comments.

I felt that this demonstrated the power of the bachelor and bachelorette, and the show itself, to enact change and open people’s minds. Even more than before, I feel like this shows the untapped potential of *The Bachelor* and *The Bachelorette*. I think people often feel as though reality shows need to be pure fluff, or that a stupid premise begets a stupid message. I don’t think reality television show producers should be resigned to making a show that’s all pretty people and no substance. While I don’t believe that *The Bachelor* will all of a sudden blossom into a show that preaches love and kindness and depth of emotion, I do feel like there is a way to turn this side of pop culture into a place where other Americans can see themselves and important issues can be addressed. Then I would love these shows even more.

Lula Beresford | Pillbox Editor
Summer coming-of-age film embraces Pittsburgh

Me and Earl and the Dying Girl uses the city as a backdrop while examining adolescent life.

It’s always cool to see your city on the silver screen, and even cooler when you’re missing that city like crazy due to summer break distance. This summer, a movie came out that was not only set in our lovely Pittsburgh, but was also really good and had a killer cast.

Me and Earl and the Dying Girl, based on the book of the same title by Point Breeze, Pennsylvania native Jesse Andrews, is a story about awkward high school senior Greg Gaines (Thomas Mann). Greg is neither popular nor unpopular; he likes to float through Schenley High School — recognize the name? Remind you of a certain campus-adjacent park perhaps? — never settling within a single group. His only friend, Earl (RJ Cyler), is referred to as a “business partner.” The two eat lunch in the office of their history teacher Mr. McCarthy (Jon Bernthal).

On his first day of school Jesse, learns that Rachel Kushner (Olivia Cooke) has leukemia, and after being informed of this by his mother, he is also told by his overbearing parents, Connie Britton and Nick Offerman, that he must befriend Rachel. This leads to a plan between Greg and Earl, suggested by Greg’s high school crush Madison (Katherine C. Hughes), to make Rachel one of their intentionally-terrible movie parodies, such as “Pooping Tom”, which up until this point have been based on odd foreign films and have been seen by no one.

Throughout the course of the film, Greg and Rachel’s friendship develops and we get to see them navigate senior year, illness, and uncomfortable friendship. We also get to see them explore a fair amount of Pittsburgh. As a Carnegie Mellon student and a member of the Pittsburgh community, it was pretty cool to see Cathy (The Cathedral of Learning) peeping out over the houses on Earl’s street, and through Rachel and Greg’s windows.

Viewers may also recognize the record store Greg, Earl, and Greg’s father visit in Polish Hill to find inspiration for their Rachel film and the corner shop they stop to get popsicles after accidentally eating pot cookies. A lot of the food the Gaines family eats, primarily Dr. Gaines and Earl, has Polish heritage, giving a nod to the cultural communities throughout the city. The director was careful to make sure the Pittsburgh vibe made it into the film, becoming a character in and of itself.

Though not included in the on-screen adaptation, the book tells us that Dr. Gaines is a professor of the classics at our lovely alma mater, which is a little strange because we do not have a classics department. Greg also explains what a Yinzer is, so if you’re not yet aware, check out that description at the beginning of Chapter 12.

Each character also lives in a different Pittsburgh neighborhood — Greg and Rachel in Squirrel Hill and Earl in Braddock, which is where you’d end up if you were to take the 61A or 61B outbound to the end of the line. These neighborhood names will mean next to nothing to anyone not from Pittsburgh, but for those of us who call the Burgh home — even if it’s just for four years — it gives the film that much more depth. We can envision the layout of these characters’ lives, map their paths for ourselves, and, if tempted, could even retrace their steps.

If you enjoy quirky, indie comedies like I do, I highly recommend this film. It has a vibe much like Submarine (Ayoade, 2010), The Way Way Back (Faxon & Rash, 2013), or The Perks of Being a Wallflower (Chbosky, 2012) which was also shot in Pittsburgh.

Another interesting Pittsburgh movie note: the “Rocky Horror” scene from The Perks of Being a Wallflower was shot at Hollywood Theater in Pittsburgh and included most of the theater’s “Rocky Horror” shadow cast. I highly recommend going to a “Rocky Horror” showing there, but make sure you’re dressed for it!

All in all, Me and Earl and the Dying Girl does a great job of being a movie about teenagers in Pittsburgh. It fully encapsulates the difficult task of existing in a clique-filled world while being an awkward 17 year old. It conveys the difficulty and annoyance of applying to college — Greg applies to the University of Pittsburgh, our Oakland neighbor. It places the characters in a world that the director and writer understand, making Pittsburgh both a place and a character and making it fun for those of us who live in the city to find our landmarks.

It also tackles the incredibly difficult topic of childhood cancer while not making it the film’s only point. The characters keep their teenage-angst I-don’t-care attitude while being affected by the fact that one of them has leukemia. They exist in the wake of mortality. Greg struggles to not constantly remind Rachel that she’s dying, and Rachel tries to remain a teenager in her senior year. There are a lot of laughs and a few moments that make you tear up; there are existential questions and poop jokes; funny accents and weird food; Nick Offerman (who is always perfect), and behind it all is the Pittsburgh sky, with Cathy looming and no overly photographed landmarks making sure you notice them.

Whether or not you live in Pittsburgh, this film is great, but since we’re here, it’s nice to notice our home around it all.

Keaton Shapiro | Junior Staffwriter

Olivia Cooke, Thomas Mann, and RJ Cyler star in this story about coming to terms with oneself and finding one’s place in the world.
Inside Out: a film with internalized conflict

Summer Pixar film teaches it’s okay to feel lost and confused by emotions

There’s a joke about Pixar that their movie premises can be boiled down to “What if [blank] had feelings?” What if toys had feelings? Toy Story. What if fish had feelings? Finding Nemo. What if robots had feelings? Wall-E. And the list goes on.

Pixar is really good at applying human experiences to non-human entities; they’ve boiled it down to a formula that keeps viewers coming back every time. Inside Out, Pixar’s critically-acclaimed summer blockbuster, took the exploration of emotions to a new extreme. In this sense it’s the quintessential Pixar flick. Except there’s one element that gets flipped on its head: the conflict.

We’re used to being handed a classic tale of good versus evil. The protagonist must look within him or herself, find the strength that was there all along, and defeat some kind of villain. There is probably some kind of epic battle or showdown.

Inside Out breaks the mold with an internal struggle. There’s no super villain, no school bully, just dealing with emotions. The entire conflict is inside the main character’s mind. Her name is Riley; she’s a little girl whose life is completely changed when her father’s job moves their family from Minnesota to San Francisco. The audience sees her struggle to adapt to this new life from the perspective of her emotions.

In Pixar’s creative imagination of our brains, there are five little people up in Headquarters controlling our actions: Joy (Amy Poehler), Sadness (Phyllis Smith), Fear (Bill Hader), Anger (Lewis Black) and Disgust (Mindy Kaling). They all work in chaotic but perfect harmony to maintain Riley’s emotions. The entire conflict is inside the main character’s mind. Her name is Riley; she’s a little girl whose life is completely changed when her father’s job moves their family from Minnesota to San Francisco. The audience sees her struggle to adapt to this new life from the perspective of her emotions.

As Joy and Sadness attempt to make it back to Headquarters with the help of Riley’s childhood imaginary friend Bing Bong (Richard Kind), Sadness finally realizes her purpose. Before, she only seemed to cause tantrums, crying, and more sadness. But through revisiting these sad memories, Joy helps her realize that sadness is Riley’s way of asking for help and support.

The two return to Headquarters just in time to stop Riley from making an irreversible mistake, and get her home to her parents where she is finally able to share the way she has been feelings since their move. The final half hour of the movie comes with the heartfelt softness of all Pixar movies, and there’s a good chance it will even make you cry.

But what sets this movie apart is the takeaway. Because the conflict was internal, so was its resolution. Riley’s struggle can teach an important lesson to viewers of all ages and backgrounds, but my hope is that it will resonate with children who still have time to change. The lesson is that feelings are okay.

The movie also shows the cast of emotions in Riley’s parents, which makes for an entertaining scene, but more importantly shows that everyone has feelings. It’s perfectly natural to have emotions of all kinds, not just happiness, but sadness, fear, anger, disgust, all of the above and otherwise. It’s part of being a human, especially at Riley’s age.

Many of the kids that saw Inside Out this summer are coming up on puberty and will start having these kinds of hormone-driven episodes of angst. Riley can show these kids and other teens that they aren’t alone in it; many of their friends and peers are probably experiencing something similar.

The resolution of the film teaches a more important but less popular lesson: that it’s beneficial to express your emotions. Tons and tons of people have a hard time talking about their feelings in order to come to a positive solution, opting instead to internalize them. This is easier at the time and allows you to save face, but in the long run, it only damages your emotional well-being and maturity.

I sincerely applaud Pixar for creating a movie that focuses on more a personal, sentimental concept with real-life applications to its viewers. Inside Out has the potential to inspire a vast audience to become more sensitive, which can benefit everyone.

Sarah Gutekunst | Operations Manager

Anger, Disgust, Joy, Fear, and Sadness make up the five characters integral to the story as they control Riley’s life from inside a creative imagining of the brain.
This summer has been an interesting one. There hasn’t been a summer this politically charged in recent memory. From Greece’s financial crisis to the presidential race in the U.S., it has been a lot to keep track of. Lately, entertainment and media have focused on the presidential race, especially the Republican primary race. Although we are still 6 months away from the actual primaries, every single news channel has been hyper-focusing on one special person in the primary race. No, it’s not the old man from the Northeast that calls himself a “democratic socialist,” it’s also not the former First Lady running for President for the third time, not even the son of a former President, and brother of another one, and it’s not even the neurosurgeon. Yes, it’s Donald Trump.

Donald Trump is a genius, but only when it comes to manipulating media to his advantage and how to become the most annoying person in all of television. Otherwise, though, he’s terrible for America. I have been devoted to understanding American politics for the longest time, so a lot of my friends constantly come to ask me about how I feel about the current political scene and how they are portraying Trump lately.

In the past few weeks, Trump has been ubiquitous on every television screen for yelling racist, xenophobic, and misogynistic remarks, to just being good old Donald and hating on everybody for everything always. Media and news outlets revere him as king for leading early polls among Republicans, but they have failed to produce any true political analysis of his campaign and what it means for the future of the Republican Party and the nation. Podcasts, however, have been a bit more critical of his campaign and most of the ones I have been listening to, even the conservative ones, agree on the same scenarios: One, he wins the primary and then only gets 20 to 35 percent of the general population’s vote, securing the election for the Democrats; two, he loses the primary, goes as an independent and “steals” around 15 percent of the vote from the Republican candidate, securing the election for the Democrats; and three, he steps out of the race, leaving the rest of the election to the Democratic and Republican candidate and letting them battle it out.

The other two most important things about Trump that I am excited for are his contributions to SNL (this will be great for Saturday Night Live, all of the Late Night people have taken their jabs at Trump, he’s proven to be comedy gold), and how this will impact Miss Universe (NBCUniversal and Univision are not broadcasting the event, and several Latin American nations have dropped from the race — they tend to win these pageants, so it should be an interesting year)

For the rest of this semester, all of these topics will continue to come into fruition as they develop and are covered by many outlets.

José Lopez | Staffwriter

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**movies in mcconomy**

McConomy Auditorium, Cohon Center

**Fast & Furious 7**
Friday, Sept. 4
8 11
Sunday, Sept. 6
8

Vin Diesel and Paul Walker star in the latest Fast & Furious installment. After defeating Owen Shaw, an international terrorist, Dominic Torette (Diesel,) and Brian O’Conner (Walker,) have split up, and begin to live their lives as normally as possible. However the older brother of the late terrorist Deckard Shaw, played by Jason Statham, is eager to exact his revenge. In a slightly skeevy deal, Toretto and O’Connor agree to rescue a computer hacker who has been kidnapped because he developed a crazy good surveillance program, and in return, government agents promise they will get rid of Deckard Shaw. Helicopters, drones, stints in prison. If you’re looking for non-stop action and high intensity chase scenes then come on down to McConomy to enjoy a film that is the pinnacle of its genre.

**Pitch Perfect 2**
Saturday, Sept. 5
8 10:30

Elizabeth Banks’ directorial debut, Pitch Perfect 2 brings even more raucous laughs and bizarre singing situations to fruition. Star Anna Kendrick and her classmates from the first film are now college seniors, and are faced with the intimidating task of winning world championships. After a flashing incident at Lincoln Center, the Barden Bellas are threatened by the a cappella association to win world’s, or else lose any and all performance opportunities. Kendrick’s character Becca Mitchell tries to balance her life as an intern at a recording studio and her commitment to the Bellas as pressure mounts. With fresh talent and a weird adventure to a summer camp retreat, the Barden Bell’s prepare to go head to head with an intimidating German a cappella group. The masterful a cappella group Pentatonix has a guest appearance.
The Carnegie Museum of Art especially is a nice place to spend a few hours, featuring tons of thought provoking contemporary art. The Carnegie Cine, located in the museum also happens to serve some of the best food in Oakland. Another noteworthy visit is the Andy Warhol museum downtown. The Andy Warhol is the largest museum worldwide to be dedicated to a single artist, and yet manages to be surprisingly approachable to people who are not well versed in Warhol’s work. Pay the Warhol a visit for an introduction to Pop Art, and to learn about the life of one of Carnegie Mellon’s most illustrious alumni.

My personal favorite, however, has to be the Mattress Factory, a small independent establishment in North Oakland. Another noteworthy visit is the Andy Warhol museum downtown. The Andy Warhol is the largest museum worldwide to be dedicated to a single artist, and yet manages to be surprisingly approachable to people who are not well versed in Warhol’s work. Pay the Warhol a visit for an introduction to Pop Art, and to learn about the life of one of Carnegie Mellon’s most illustrious alumni.

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What's coming up in 21st century cinema

Be informed about some exciting collaborations and controversial castings happening now

This Week In Movies: August 31, 2015

Twice a year we enter, what I like to call, “The Movie Offseason.” Along with January–February, we’re coming into the late-August–September season of movies that just don’t measure up. Studios take some time to catch their breath after an explosion-fueled summer and gear up for the playoffs — Oscar season. I anticipate these next weeks to be slow at the theaters, but the PR Department of major studios are still at work cranking out some interesting news to keep us all biting our nails. Let’s get into it.

Toby Kebbell up for Kong: Skull Island

This is a shining light for Hollywood. There was a time, quite recently in fact, when one bad movie could set an actor back years in their career. Mike Myers (The Love Guru) and Ryan Reynolds (Green Lantern) know this all too well. Seeing Fantastic Four and knowing Toby Kebbell, the young, unsung talent that he is, is still being sought after puts a big, wide smile on my face.

Kebbell would join the ranks of Tom Hiddleston (Thor, The Avengers) and Jason Mitchell and Corey Hawkins (Straight Outta Compton) along with other actors in negotiations: Samuel L. Jackson, Brie Larson, and John C. Reilly. The Legendary and Universal Studios film is described as, “a team of explorers venture deep inside the treacherous and primordial home of the king of the apes.” Kebbell’s role is undisclosed, but his marvelous work as Koba in last summer’s Dawn of the Planet of the Apes might just give us a clue.

Christian Bale to star as Enzo Ferrari in new biopic

Director Michael Mann has a special talent for getting the best performance out of his actors. Previous biopics, such as Ali and Public Enemies, along with celebrated works: Collateral and The Insider, prove that point, and harping on Christian Bale’s talents is like harping on Yo-Yo Ma’s — I think we all understand he’s great. Based on the book Enzo Ferrari: The Man, The Cars, The Race, The Machine, I hope the pieces come together once again for another Oscar-level film.

Jennifer Lawrence & Amy Schumer team for sisters comedy

I don’t know what kind of writing skills J-Law has, but her charisma and free-spirited lifestyle make this writing duo an obvious match and extremely intriguing. Amy Schumer’s “pull no punches” comedy style is a breath of fresh air in the politically correct world we’ve entered, and pure comedy is Lawrence’s last frontier. She’s taken action heroine (X-Men and the Hunger Games series), drama (Silver Linings Playbook, American Hustle, and Joy: coming soon), and horror (House at the End of the Street) but starring in a laugh-out-loud popcorn comedy, in the vein of Kristen Wiig and Melissa McCarthy, alongside Schumer might be just what the doctor ordered.

In an interview with The New York Times, Lawrence admitted they’re “almost done writing” and put roughly 100 pages worth of comedy on paper. Considering Lawrence’s level of stardom and talent and Schumer’s newfound, and long awaited, film comedy power, don’t be surprised when this project gets put on the fast-track for theaters.

Ryan LaBarbera | Junior Staffwriter

10 movies pillbox 08.31.15
Let Down Your Hair by Alex Culang and Raynato Castro

Rapunzel, I have an idea. Let down your hair.

Alright.

OK now what?

Hmm... I'll be back... in 67 years.

buttersafe@gmail.com  buttersafe.com

Engineer Syllogism by xkcd

1: I am good at understanding numbers.

2: The stock market is made of numbers.

3: Therefore, I—wow, where did all my money just go?

press@xkcd.com  xkcd.com
Solutions from Aug. 22

Crossword

Sudoku

Maze
### Horoscopes

**aries**

March 21–April 19

Loosen your fire element and approach life with passion and courage. Get more rest until the 20th of the following month and give more attention to the ankles and calves.

**taurus**

April 20–May 20

Jupiter’s move will bring a serious love you deserve. Meantime enjoy yourself now that Saturn has left — your overall health is wonderful.

**gemini**

May 21–June 21

Death and resurrection are normal parts of life. If something in your life seems like it’s dying, rather than mourn, rejoice that its resurrection is not far behind.

**cancer**

June 22–July 22

This is the time for detox and cleansing, both in the mind and the body. It’s a good idea to rid your body of what it does not need.

**leo**

July 23–Aug. 22

Learn to enjoy your work in a more productive way. Jupiter’s leave last month in your sign gave high spirits and a party attitude.

**virgo**

Aug. 23–Sept. 22

Relationships will be tested. Good relationships will survive. With Saturn affecting the love planet, it can be difficult to express feelings so be sure to continue being creative and mindful.

**libra**

Sept. 23–Oct. 22

It’s time to buckle down for school and work harder at your studies. If you do, you will become successful.

**scorpio**

Oct. 23–Nov. 21

This month is excellent for students, teachers, and writers. Keep an eye on your financial status and major purchases, and investments should best be delayed.

**sagittarius**

Nov. 22–Dec. 21

You’re a happy-go-lucky person with boundless optimism. But now optimism will be tempered by obstacles, so be prepared.

**capricorn**

Dec. 22–Jan. 19

Your week will start off with stress, both from relationships and from work. But if you hang on tight, your workload will improve.

**aquarius**

Jan. 20–Feb. 18

Saturn is going to weed out mediocre friends from your real friends. This is not always pleasant, but in the end it’s better to have a few close friends than handfuls of mediocre ones.

**pisces**

Feb. 19–March 20

Your challenge will be to keep your feet on the ground — to stay in your body and not float off to Nirvana. Nirvana is wonderful, but not while you are engaged in worldly activities.

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**Maryynn Landlord** | Comics Editor

### Crossword

**ACROSS**

1. Golf stroke  
5. ___ lunch  
10. Sphere  
14. God of thunder  
15. Dens  
16. “A Death in the Family” author  
17. Containing gold  
19. Later!  
20. Egg exterior  
21. Primitive form of wheat  
23. Clear tables  
25. Deplete  
26. A hobgoblin  
29. Part of MIT  
31. Homerun king Hank  
35. Faulkner’s “___ Lay Dying”  
36. Plumlike fruit  
37. Sheath  
38. Lacking depth  
40. Floating ice  
41. Trojan War hero  
42. Diet successfully  
43. Patethic  
44. Caesar’s tongue  
45. Achy  
46. Extremely  
47. Backpack part  
49. Caustic chemical  
51. Legging  
54. Church instrument  
58. Surf sound  
59. Crookedness  
63. Kitchen addition  
64. Chip maker  
65. Bacchanalian cry  
66. Saudi king  
67. Discharge  
68. Equinox mo.

**DOWN**

1. School orgs.  
2. No way  
3. Ripped  
4. Hat  
5. Bullfight cheer  
7. Juan’s uncle  
8. Most loyal  
9. Actor Davis  
10. Knapsack  
11. Currency exchange fee  
12. Goneril’s father  
13. Boxer Spinks  
18. Sick “season”  
22. Subtle difference  
24. Grain stores  
25. Function  
26. A hobgoblin  
29. Part of MIT  
31. Homerun king Hank  
35. Faulkner’s “___ Lay Dying”  
36. Plumlike fruit  
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Crossword courtesy of BestCrosswords.com
Semester Preview

Friday 9/4/15

Your Life: the Musical
Arcade Comedy Theater. 10 p.m.
Ever want to be the inspiration behind a piece of art? Ever want to see a musical be created before your very eyes? You might have the opportunity to do so at Arcade Comedy, where a lucky audience member’s life story will become the inspiration for a wonderful piece of theater. Tickets are $10.

Friday 9/11/15

TRANS-Q Live!
Andy Warhol Museum. 8 p.m.
With performances of dance, music, comedy, poetry and more, Trans-Q Live will be a night full of queer fun. Immediately following the performances there will be a reception and party hosted by DJ Sassy Suggestions. The event is co-presented by Trans-Q Television, a project of the Center for the Arts in Society at Carnegie Mellon. Tickets are $10 for general admission and $8 for students and members.

Saturday 9/12/15

Pittsburgh Pierogi Fest.
Stage AE. 12-5 p.m.
Back for its 3rd year, the Pittsburgh Pierogi fest is here to celebrate the city’s most delicious dumpling. The event will feature over 30 pierogi vendors, with live music ranging from polka to rock, paint your own pierogi lessons, balloon animals and face painting. Tickets are $12.50.

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Friday 9/25/15-10/3/15

VIA Festival.
Throughout Pittsburgh.
VIA Festival happens each fall, featuring over a week’s worth of local Pittsburgh artists in a unique meeting of music and visual arts. The self-described “Festival as Laboratory” tries every year to redefine what constitutes a music festival, offering an immense variety to suit many tastes. For information about the lineup and ticket prices, which vary per show, visit www.via-2015.com/pittsburgh.

Friday 10/16/15

21+ Night: Back to the Future
Carnegie Science Center. 6-10 p.m.
Celebrate the month that Marty McFly traveled into the future at Carnegie Science Center’s monthly 21+ night. Highlights of the event include the Steel City Time Machine, a replica Back to the Future DeLorean, a High Voltage show featuring a Tesla Coil, and a screening of Back to the Future 2.

Tuesday 11/3/2015

Sufjan Stevens.
Heinz Hall. 8 p.m.
Sufjan Stevens is a multi-instrumentalist singer-songwriter with a wide range of talents. His discography ranges from indie pop and electronica to folk. He is on tour this year following the release of his most recent album Carrie and Lowell, which critics have deemed Stevens’ best yet. Tickets start at $48.

Ongoing

Aftersound: Frequency, Attack, Return.
This exhibition, which officially opened August 21, explores the place that sound has in art. It specifically focuses on sound visualization, physics of sound, political implementations of sound such as sonic warfare, and experiments attempting to use sound to access new sensory experiences. There will be a reception on Friday September 25 from 6 to 8 p.m. Entrance to the exhibit and the reception are free.

HACLab Pittsburgh: Imagining the Modern.
Featured in the museum’s Heinz Architectural Center, the exhibition looks at Pittsburgh as a city from an urban revitalization and architectural perspective. The “experimental presentation” narrates the successes and failures the city has had, also featuring historical archives, an actual architectural studio, and a salon for discussion.

Warhol by the Book.
This exhibition curated by Chief Archivist Mat Wrbican puts on display the work Andy Warhol did with books. While much of the collection was never published, it gives insight into his creative processes. Admission to the exhibition is free with admission into the museum.

Compiled by Sarah Gutekunst | Operations Manager
On Monday, current students gave the class of 2019+ some words of wisdom to help them with their school experience, and showed them the diversity of talent and passions here at Carnegie Mellon University. **Top:** Carnegie Mellon Bhangra performs a high energy and joyful set. **Bottom:** Head orientation counselor Zuojun Gong talks about his experience at Carnegie Mellon while standing in front of his head orientation counselor colleagues.