Students win Geothermal Design Challenge - A4

SCITech

On Aug. 29, undergraduates and graduate Carnegie Mellon students will be able to participate in various Group X classes, such as Zumba and indoor cycling, for free. Students must simply present their ID to their instructor.

Pitt student causes disturbance on Forbes Ave.

A 22-year-old University of Pittsburgh student, identified as Grant Birdsong, who hailes from the nearby Indiana Township, made waves on the internet last week when he attempted to leap from the roof of a building onto another, but instead fell and got wedged between the two, all allegedly to impress a woman he just met. The two had gone up a fire escape to the rooftops of the Qdoba and Bruegger’s Bagels restaurants in Oakland when the incident occurred. The area, on Forbes Avenue near Second Street, is relatively central to the University of Pittsburgh, but is also often visited by Carnegie Mellon students looking for nearby off-campus food options.

At approximately 2 a.m. Tuesday morning, rescue workers arrived on the scene to try to retrieve the student from the 17-inch gap between the buildings. Police, firefighters and paramedics all converged to the effort for about four hours before Birdsong was finally freed at around 6 a.m. At one point, a paramedic rappelled down the gap, descending around three stories to help. Eventually, a jack hammer was used to break through the wall of Qdoba in successfully contact Birdsong.

The entire episode was live-owned by the Pittsburgh Public Safety Department, and was monitored on several national news outlets. At Bruegger’s, Birdsong was wheeled away from the scene on a gurney, conscious but bleeding and sporting a broken ankle, he reportedly arrived at TV news cameras. A brief video of Birdsong after he was rescued shows him calmly laying on a stretcher as he rolls from the scene to try to retrieve the student. He hopes that the accessibility of these new classes will provide students the opportunity to be more healthy and active.

Group X classes used to be paid for through the Fitbucks payment system. Each Fitbucks would cost one dollar and a Group X class cost five Fitbucks. Tryout for a Group X class, students were required to bring their Carnegie Mellon ID and bring their ID against a ticket to pay at the door. If Free classes never changed, however, students can now take advan- tage of the classes by simply arriving at their desired class in time to present the student ID to the instructor. This is a much quicker, sim- pler way of getting in and participating.

On Aug. 29, undergraduate and graduate Carnegie Mellon students will be able to participate in various Group X classes, such as Zumba and indoor cycling, for free. Students must simply present their ID to their instructor.
**CAMPUS NEWS IN BRIEF**

Celebration of Cohon Center Expansion will take place on Friday, September 2

On Sept. 2, the Cohon Center will be offering a variety of events, including a performance, art exhibit, and food throughout the day to celebrate in-person events. A preliminary schedule of events is provided below, but more details, activities, and a full schedule of events will be coming later this week. More information can be found on the corresponding date of the issue and the name of the article. We will also be able to check in at the event information desk in the atrium of the new Cohon Center, which will be available from 11 a.m. to 4 p.m. At 4:30 p.m., there will be a ribbon-cutting ceremony. A 3-on-3 basketball tournament will begin. At 7:30 p.m. in the Student Union, there will be a performance by dance team the Chin.

In the evening, all attendees are invited to attend the celebration of Zontostia in McConkey Auditorium at 10:30 p.m.

Jean Yang added to MIT Technology Review’s “Innovators Under 35” List

Jean Yang, a new assistant professor joining the Carnegie Mellon Computer Science Department, has been added to the annual “Innovators Under 35” list of the Technology Review that recognizes innovators across a wide range of fields. This year’s list was unveiled in the Visionary category of the annual competition in order to recognize meaningful innovation in artificial intelligence applications.

Precious Sun, who was named to the list last year, has been added to the co-founder of Facebook, the chief designer of Apple, and Larry Page and Sergey Brin, the co-founders of Google. This year, we’ve had success in choosing young innovators whose work has been profoundly influential in the direction of the ongoing business.

**WEATHER**

TUESDAY

67° / 63°

THURSDAY

87° / 60°

SUNDAY

77° / 54°

SATURDAY

82° / 60°

FRIDAY

78° / 56°

Source: weather.com

**International News in Brief**

**French burkini swimwear ban reversed by court**

NICE — Following the release of images on a beach in Nice of police forming a woman to remove her bikini, the highest court in France, the Council of State, ruled that mayors do not have the authority to ban the garment.

This news follows a ban of the headscarf, which covers the whole body except for the face hands and feet, in more than 30 French cities.

Source: CNS

**Criminal mischief/Assist Outside Agency**

Aug. 20, 2016

A University Police Officer arrested the Portuguese Police for the apprehension of a male attempting to break into a vehicle.

**Alcohol Amnesty**

Aug. 23, 2016

University Police responded to a report of an irri

Ed mentioned male at Margaret Morrison Apartments. The Carnegie Mellon student was provided with medical attention. All either of Alcohol Amnesty were met and no citations were issued.

**Criminal Mischief/Assist Outside Agency**

Aug. 22, 2016

A University Police Officer on patrol in the Tech Area storage area sometime between 11 p.m. and 1 a.m. found a report of an intoxicated student. The student was provided with medical attention. All either of Alcohol Amnesty were met and no citations were issued.

**Theft of Computer**

Aug. 24, 2016

A Carnegie Mellon student’s bike was unlawful

mentally removed from the Mudge Rack located outside of Stever Eatery. The student was provided with medical attention. All either of Alcohol Amnesty were met and no citations were issued.

**Theft of Bicycle**

Aug. 24, 2016

A Carnegie Mellon student’s bike was unlawful

mentally removed from the Mudge Rack located outside of Stever Eatery. The student was provided with medical attention. All either of Alcohol Amnesty were met and no citations were issued.

**Suspicious Person**

Aug. 25, 2016

A suspicious female was reported wandering Wean Hall. The non-attachment was used a Defiant Trespass Warning by University Police and now escorted from campus without incident.

**Campus Crime & Incident Reports**

First-year students “capture the moment” during orientation week

From Campus Crime & Incident Reports from 25 countries and 44 states. This year’s theme was “capture the moment,” which prompted students to take plenty of pictures during the week.

Three Campus Crime reports are being investigated for alleged “swimwear ban” in Nice of police forcing a female worker to leave of job.

JADE CROKEM

DEBORAH CHU
Electric Garage shuts down; e-car use minimal at CMU

While electric car use has not been given much attention on campus, there has been a lot more focus on other methods of transportation such as bicycles, motorcycles, and handicap accessible cars, which have far more spots on campus that electric cars do. The drive to include and promote conversations about other methods of transportation at Carnegie Mellon is present, but sadly electric car use has not been as included in this movement.

It is still unclear to whether or not Carnegie Mel- lorn will take the initiative to promote more discussions around electric cars on campus. However, with the growing use of elec- tric cars across the globe, one can hope that this will soon change.
If you own a smartphone, you've probably heard of the international frenzy sweeping the nation — or at least kids ages five to 25, and then some. Pokémon GO is a free, downloadable, international app developed by Niantic Inc. that utilizes augmented reality to populate a player's surroundings with Pokémon characters from Nintendo's popular games for users to catch. Players interact directly with their smartphone using a Google Maps layer. They can level up by catching and trading Pokémon, as well as competing in Gyms, to earn points and gain influence in the game. "nearby" feature in the application indicates the location of nearby Pokémon GO players, and players can be alerted to Pokémon and other points of interest on the map.

One of the game's selling points has been encouraging people to get up and walk around, allowing them to become more aware of the environment around them. In the Chugoku region of western Japan, students from Inuyama High School and Komatsu High School participated in the study. The researchers employed a network of autonomous sensors to determine the number of people passing through a permeable pedestrian path that transformed into an augmented reality interactive zone. The data showed that the percentage of people walking through the interactive zone increased by 11% compared to 17% over the control periods. This suggests that the game could be used as a tool to promote physical activity and encourage people to explore their surroundings.

Pokémon GO app developers have identified an S-shape, a fast-deep breath zone, which is triggered by a severe distant storm in the Atlantic Ocean. The researchers developed an algorithm that could help predict the occurrence ofPokémon GO players in the area. This could be useful in identifying areas that are particularly popular, allowing for targeted advertising or event planning. It could also be used to determine the number of players in the area, which could be useful for marketing purposes or for understanding the popularity of the game in different regions. The future of augmented reality in gaming holds great promise for the entertainment industry, providing new opportunities for developers and players alike.
**Augmented reality enhances, amplifies human capability**

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**The process of concrete: cement, sand, water mix together**

Concrete is a mixture of cement, water, sand, and small rock particles. It works as follows: Cement grains are dissolved in a mixture of water, sand, and small rock particles, releasing calcium and silicate ions in the process. Once the ions spread throughout the mixture and reach a critical concentration in solution, they begin to precipitate out of solution and form a cement film around the small rock particles. A general ratio used by many companies is one part cement to three parts sand to three parts small rock particles.

Concrete is generated via a chemical hydration reaction between cement and water. It is important to note here that cement and concrete are not the same thing. Cement is composed of limestone and clay, which are heated together at 1450 degrees Celsius in order to induce a reaction generating calcium silicate hydrates:

$$\text{Ca}_2\text{SiO}_4 + \text{SO}_3 \rightarrow \text{CaSiO}_4 + \text{CO}_2$$

In this newly-reacted powder form, cement readily undergoes the previously mentioned hydration reaction that enables the creation of concrete.

Concrete is a mixture of cement, water, sand, and small rock particles. This cycle of dissolution, diffusion, and precipitation continues for about an hour, causing the film to impinge on one another and the entire mixture solidifies.

It is at this point that the concrete begins to "set" and lose its fluid properties. Hydration of concrete is usually complete in only a few hours; however, at the microscopic level, hydration can continue to occur for months or even years.

Interestingly, although concrete is used nearly twice as much in construction than any other building material, the crystalline structure of concrete was only just revealed by scientists at the Massachusetts Institute of Technology in 2009.

**Concrete is bright!**

As we begin to understand concrete’s molecular make-up, we can make inroads into making concrete crack-resistant and more environmentally-friendly.

With these benefits, concrete will continue to be used to build roads, houses, and foundations. The future of concrete is bright!
Energy in Earth is promising

create thousands of new jobs, and revitalizes the economy while providing cheap, American grown energy that we can trust to be clean and available for many generations to come.”

The infographic starts with a percentage distribution of the current United States electricity generation sources. Geothermal energy is currently the least used energy source, at 0.4 percent, and coal is currently the most used energy source at 28.7 percent.

The infographic moves to types of sources for electricity in the United States in 2050, claiming that geothermal won’t expand until technology makes it more cost-effective upfront.

The infographic then moves to the operation cost of geothermal versus other energy sources, stating that geothermal has stable prices because it doesn’t need foreign fuel to operate.

“I think something risky our team decided to do was incorporate information about other types of energy, so that our infographic’s only focused on geothermal energy,” said in the press release. “We wanted to be realistic. We depicted statistics about current energy sources and what their status would be in the future.”

“In the visual storytelling of our infographic, we all agreed that while we had separate/different info blurbs to emphasize, we needed them to still be able to come together to form a bigger picture for both informational and visual coherence,” Lu told The Tartan.

“From a selling point, we believed an infographic that forms one picture overall catches the viewers attention faster without turning them off with too much text. It’s what I believe set our infographic apart; ours is easy to view and glean information from at varying distances. So even the uninterested, unengaged viewer, would be able to get something out of it because the information we provide doesn’t need text to be understood.”

The infographic ends with the claim, “With potential to make positive impact economically, socially, environmentally, and research racing to make Enhanced Geothermal Systems cost effective, where do you see our future?”

All three students credit the School of Design in helping prepare them for this competition.

“I am happy and grateful to have been able to contribute towards working to this ideal while being able to apply the skills learned in school,” Lu said in an interview with The Tartan.

“It was quite nice to see a reminder of why I am incredibly grateful and happy to be a CMU design student,” Lu continued. “The competition experience involved everything I loved from reading up on the current energy climate to organizing the informational hierarchy to having fun playing with the nuances in the color theme - the process I feel really reflected the type of bigger picture design thinking curriculum CMU Design cultivates in students.”

“Winning this challenge made me proud to represent Carnegie Mellon Design,” Lai said in an interview with The Tartan. “It also encouraged me to create or join more design challenges, because participating in this one was a fun and rewarding journey.”

The top three teams received a cash prize of $2500 each. Since Lu, Lai, and Lee won the grand prize, they will also receive a trip to the Geothermal Resource Council’s 40th Annual Meeting on Oct. 23-26 in Sacramento, California to present their infographic.
Grad students deserve respect, right to unionize

The National Labor Relations Board (NLRB) has recently reversed its previous decision denying graduate students the right to unionize and giving the rights to employees. Their decision comes in the wake of a series of cases filed at Columbia University. The ruling was 3-1 in favor of graduate students, having the right to collective bargaining. With all the work that seems to be done by graduate students, it seems to be the obvious response to allow them to be unionized.

The context of what is being done by graduate students for educational purposes and what is being done for commercial purposes seems to often be what causes the NLRB to be on the fence. While graduate students are on campus, they are taught to teach, or much more than just teaching while they are on campus, with all of their tasks that come with their learning. As teaching assistants, they are often introducing their ideas to the right to unionize for graduate students. The students are the “primary purpose” of “primary relationship” ideology. This decision was morally overturned in 2000 and then, in 2006, the NLRB returned favoring the “primary purpose” justification. The NLRB has maintained the idea that graduate students are not protected under the National Labor Relations Act (NLRA), only varying from this opinion between 2000 and 2006. The NLRA is an act that protects the rights of employees to unionize, participate in collective bargaining, and go on strike. This act initially did not cover any employees, but it has changed in 1972 when the NLRB decided that differentiating between commercial and noncommercial activity was not necessary. This is when the NLRB decided that graduate unions would be included in this jurisdiction.

Graduate students are not only taught at university, but they work for the university as well. The problem is that the NLRB is no longer going to be on the fence. While graduate students are on campus, they are taught to teach, or much more than just teaching while they are on campus, with all of their tasks that come with their learning. As teaching assistants, they are often teaching introductory-level material in their field. They’re left with the task of going to test and feedback, helping the material in their field. The professor often does not have time to do as much. Lecturers can be key, in this time during their teaching and assisting in the writing that makes the difference for many students.

This experience can be useful for graduate students, but they are usually teaching information that they already have a pretty comprehensive knowledge of. The idea that they are facing their students on their own, through the process does not really add up well. They are teaching courses that are for the benefit of undergraduate students, graduate students, not necessarily for themselves. In addition to playing a pivotal role in the education process for undergraduate students, graduate students also play an important role in the development of research at universities. While this is something that graduate students can benefit from, they are facing the world that can benefit from it. So many ideas for products start as an idea between a graduate student and a professor in a classroom. For this, graduate students need to be able to protect their rights as employees.

Placed on undergraduate students. Graduate students are the least known that keep universities thriving. They often have a pretty comprehensive knowledge of the area that they are taught in, and undergraduates probably do not realize how much they respect the ability. The amount of students that undergraduate and graduate students, they can be a separate entity that is often handled by undergraduates outside of universities. They do not have a collective voice, and that voice often goes unheard due to the amount of voices of professors and undergraduate students.

Graduate students have been treated as second-class citizens by the NLRB. They are standardized, which makes the work that they do whether it is for educational gain or financial incentive can remain unprofitable. While they are students, they are often denied their rights to unionize their students, not necessarily for themselves. While this is something that graduate students can benefit from, they are facing the world that can benefit from it. So many ideas for products start as an idea between a graduate student and a professor in a classroom. For this, graduate students need to be able to protect their rights as employees.

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Beware common myth: the next breath how they are doing is involved in, and will tell you on what you will be doing in the future.

It is sometimes neglected, and left feeling like you are clichés for a reason — but in vice people will give you — after all, they are involved in, and will tell you on what you will be doing in the future. To imply that there is some formula for becoming that new person who is unrecognizable every remnant of yourself and be this est version of yourself to the world, version of themselves. It is terrifying which may or may not be the truest self to yourself and take care of change in anyone’s life. You need to do not first make time to make sure that you are healthy, medically, and socially.

It’s okay to feel lost and scared in you’re own personal change in anyone’s life. You need to be true to yourself and take care of yourself. You cannot help yourself if you don’t know yourself. You can only make it up to you need help.

We are all taught that anyone can go outside and be healthy, vulnerable, honest, and open. It is easy, especially because being a human is to reflect upon your own personal change in anyone’s life. You need to be true to yourself and take care of yourself. You cannot help yourself if you don’t know yourself. You can only make it up to you need help.

It is often not until a major storm called hurricane air, or a disaster called earthquake. It is too late.

No other explanation turns up. In this scenario: The present search for biomarkers, to catch up to the advances in fields such as collections of symptoms for a diagnosis to interpret them in the current diagnostic system, the RDoC looks at the brain as collections of symptoms for a diagnosis to interpret them in the current diagnostic system.

Theodore Teichman /Staff Writer for The Tartan

Climate change landscape, threatens flood of climate refugees

Mashhad Island, Alaska, is a village with a population of approximately 300, an impromptu community on the far southern end of the islands, north of the Bering Strait. The village is rather remnant, with a single church, these roads, three main roads, a post office, a church, a few stores, a hospital, a post office, and a collection of small stores. We define it as an area uninhabitable by a human.

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Theodore Teichman /Staff Writer for The Tartan
Carnegie Mellon senior runner Ryan Archer makes his way past the crowd at a cross country event last season.

August 29, 2016 • The Tartan

The headquarters of Riot Games in Los Angeles, California. Regular season matches are played here weekly.

Upcoming Events

Men’s Soccer vs. Wabash at Carnegie Mellon Sept. 1, 1 p.m.

Football vs. Mount Union at Carnegie Mellon Sept. 3, 2 p.m.

Men’s Cross Country Duquesne Duels at Schenley Park Sept. 3, 9:30 a.m.

Women’s Soccer vs. Franciscan at Carnegie Mellon Sept. 2, 3 p.m.

Volleyball vs. Management at George Washington, PA Sept. 2, 3 p.m.

Women’s Cross Country Duquesne Duels at Schenley Park Sept. 3, 9 a.m.

Riot Games scolded for poor decisions in esports league

ALEX WOOD
Sports Editor

Over the last week, the community of the largest esport in the world, League of Legends, became angry after a series of events culminating in a public relations disaster for the developer of the game, Riot Games. This calamity started after an interview with theScoreesports.com with a professional player, Vilang “Doublelift” Peng, in which Doublelift discussed the current problems with the way Riot Games is handling its competitive scene. Namely, Doublelift criticized the developer for releasing large updates, also known as patches, immediately before large professional tournaments. These large updates can have drastic effects on players who are attending the professional tournaments. Those large updates can have drastic effects on players who are attending the professional tournaments.

The community of League of Legends is a large, game changers like professional tournaments are played.

doublelift’s short interview gained traction in the online community, and more well-known people in the esports community started to speak out on the same issue. Christopher “Monster” Mykles, a popular League of Legends caster for the development of esports and owner of one of the major esports games for this very reason.

The calamity was bearing their fangs at Riot Games for not paying his players enough, and “losing money on other esports.” This statement, among a slew of other blunders, triggered a massive angry response from important members of the community, and for good reason. Not only that, but the longevity of Riot Games’ game is at stake as well. League of Legends is already one of the longest lasting esports games in history, next to StarCraft: Brood War. Every game has a life span, and it is up to Riot Games to preserve their game for the future. If they continue to communicate poorly with the community and make unfor- bearable decisions for players, the game will not last.

Riot Games can choose to extend their games longevity by appealing to the community. The community of League of Legends is larger than ever, and it will take a considerable amount of time for the game to fade away.

PAC Preseason Football Poll

1. Southern Miss
2. Boise, Idaho
3. Boise, Idaho
4. Wisconsin
5. Nebraska
6. Oregon
7. St. Francis
8. Washington
9. Iowa
10. Penn
11. Temple City
Sports

Tartan football and soccer teams begin the 2016 season

ALEX WOOG  Sports Editor

This Saturday Sept. 3, the Carnegie Mellon women's soccer team will take on the Bears of Franciscan University at home on Thursday, Sept. 1. Last year's meeting between these two teams is any indication of how this year's match will go, then the Tartans are expected to swing however. These teams met last year on the exact same day, and the Tartans dismantled Muskingum by a score line of 6-0.

The Tartans did not end last season on a high note after losing their final two competitions, but that can often be the case of hard practice they are surely having in order to get back on track. Muskingum should be a sure start up game for the Tartan men, allowing them to flex their muscles and go into the season with an air of confidence about them. They should not get complacent however, because Muskingum will still show up to play and cannot be underestimated. If the Tartans just play their usual game and avoid mistakes, they should win easily. Carnegie Mellon's soccer team will take on Franciscan University at home on Friday, Sept. 2 at 7 p.m. This is an interesting matchup because these teams did not meet at all last season, so it could be anyone's game. The Tartan women finished last season with an astounding 17-2-4 record, so they are not used to losing.

That said, their season was cut short in the third round of the NCAA tournament in a heartbreaking overtime loss to Calvin, 1-0. That left the Tartan women with a bad taste in their mouth, and they'll be looking to clean their palate in the first match of the season against a new opponent.

The women of Franciscan University finished last season with a 5-8-2 record, so they can only improve on last season. If the Tartan women perform as close to the level they did last year, they should handle this team. The Bear women begin their season on Sunday, Aug. 28, against Calvin.

The Carnegie Mellon men's soccer team will take on Muskingum at home on Thursday, Sept. 1.

Olympic athletes earn cash prizes based on countries

PAULINE TING  Assistant Online Editor

As the Summer Olympic games end, a number of sports have come out with more than a handful of medals. Michael Phelps, Katie Ledecky, Simone Biles, and Usain Bolt to name a few. After years of rigorous training, endless sacrifices, and often multiple injuries, achieving the Olympics is the measure of ultimate success; winning a medal is the icing on the cake. However, not all prizes are created equal.

Besides fame and an Olympic medal, Olympic medals also bring cash prizes from their country's National Olympic Committees. In the United States, gold medals will earn $250,000, silver medals $150,000 and bronze medals $100,000. The Unit ed States Olympic Committee also gives out $15,000 in cash prizes for the 105 medals won by American athletes.

However, these cash prizes are not offered by the United States government based on the athlete's team's bracket. Simone Biles, who won 4 gold and a bronze medal will have to pay $43,560 in taxes and Michael Phelps will have to pay up to $53,540.

So which country offers the most money for winning a gold? Singaporean Joseph Schooling, who defeated Michael Phelps to win the gold in the 100-meter butterfly will receive one million Singapore dollars ($743,108), the largest prize money from any country. Indonesia offers $342,000 for gold medals and both Australia and Kazakhstan also offer a whopping $250,000 for each gold medal.

Prices can extend past cash as well. The past, Russia has offered humble cashes to Olympic medalists and in South Korea athletes can receive a gold medal for a country who compete for a big difference in what you could earn. Of course, Olympic athletes generally cannot choose which country they compete for so they have to take what they can get. Regardless of cash prize, medal-winning Olympic athletes are always held in high esteem in their home countries, and some would say respect is the ultimate prize.
New on Netflix
Find your new obsession or rediscover an old classic • B3

Tales from Abroad
Follow a lively journey to Mumbai • B5

Orientation Week
Relive the best week of college • B6-B7
3 New on Netflix
With a new season comes a new wave of shows and movies to binge-watch.

4 Headphones
Having trouble deciding between Beats and Bose? We’ve got you covered.

5 Mumbai
Follow Kruti on her journey throughout Mumbai, India.

6 Orientation
For those of you who aren’t first-years but still want to experience the fun.

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3 Advice
Love life literally dryer than a desert? Check out our advice for tips to get some rain.

8 Stories from the Soul
A new column that features creative content of all kinds.

8 Movies in McConomy
Whether you’re into history or cartoons, there’s a movie for you.

9 Comics
Have one last laugh before classes start.

11 Calendar
Syllabus week might be the last time you have free time. Take advantage of it.
Here’s what’s new on Netflix
From sharks to Oscar winners to your next binge-watch

My parents’ Netflix account has been just as (if not more) integral to my college education as Blackboard. President Jed Bartlett, the Property Brothers, every Disney princess, and Tim Riggins have been there for me during every late night grind, and I’ll never forget the memories we’ve made and essays we’ve phone’d in.

But we always look to the future. Another year of college is upon us, and I need more shows and movies to keep me going when the going gets tough.

Luckily, Netflix released the list of titles we can look forward to in September, and I can already imagine these on the split screen next to another 12 tabs.

**Bill and Ted’s Bogus Journey**

Ideally Netflix would do better for us and get the Excellent Adventure, but during the late nights when only silly stoner humor can remedy the existential dread, the Bogus Journey will do just fine. In this sequel, the duo travel to literal hell and back to fight off a revolutionary traveling back in time from the dystopian future their music has created. This crazy chaotic comedy will transport you to another dimension, making it easier to pretend nothing really exists. (Available 9/1)

**Hoot**

I can’t wait to relive the pre-pubescent glee this movie gave me when it came out in 2006. Not only did I feel superior because I read the chapter book, I got to watch super heartthrob Cody Linley and adorable young Logan Lerman portray very sensitive, kind, thoughtful, animal-loving boys that would love me if they just met me. Also there’s something about an owl. (Available 9/1)

**Jaws, Jaws 2, Jaws 3, and Jaws: The Revenge**

This is one for an all-day Saturday marathon when getting out of bed is just too challenging to bear. Make as many snacks as you can carry in two trips max and enjoy as the highly-regarded original Jaws film spirals out of control faster than my sophomore spring into a 1987 Golden Raspberry nominee. (Available 9/1)

**Crash**

Sometimes it is important to cry. Crying is good for you, and it feels good. There are a few movies that are guaranteed to get me to cry every single time, even though I know what’s coming, and I often watch them on purpose because I like to feel things: Rent, Titanic, and Crash. Crash is raw, challenging, depressing, and still topical in Trump’s 2016, 12 years after it stole the Oscar from Brokeback Mountain. Still outraged about that. (Available 9/6)

**Zootopia**

This is for the opposite of Crash, when you’re craving bright colors and plots written for small children. Zootopia is Disney’s latest gift to humankind, telling the story of a small rabbit from a farm town who dreams of becoming a police officer in the big city. It’s a lighthearted re-rendering of the “don’t judge a book by its cover” message, but I plan to add a bottle of pinot noir to the occasion to make the ride even more fun. (Available 9/20)

**Easy S1**

This is another one of Netflix’s original shows, which have been unbelievably successful considering the alarming rate at which they keep pumping them out. This one will be an “8-episode anthology drama series” that “explores diverse Chicago characters as they fumble through the modern maze of love, sex, technology and culture.” I find this description vague and terrible, but the cast includes Orlando Bloom, Dave Franco, Jake Johnson, and Hannibal Buress, so I’m willing to watch just in case there are any good shirtless scenes. (Available 9/22)

Sarah Gutekunst | Publisher

**Advice for awkward people**

About your post-break-up sexual awakening

**Dear Sarah,**

I recently went through a bad break-up, but the silver lining is that it’s led me to a sort of sexual awakening. He was the only person I’ve ever been with, but he was terrible. Meaningless hookups are more than just fun, they make him a smaller percentage of my list.

As excellent as these new experiences have been for me and my twisted grieving process, not all hookups are created equal. Sometimes these random duds just don’t do it for me. These noobs don’t even consider any appetizers before demanding the entree. I just can’t make myself salivate enough to make it palatable, and it’s simply unpleasant. I just lie there praying for dessert to come already.

I’m not really willing to give up on my unhealthy coping mechanism just yet, because I think I’m just skimming the surface of this phase. Is there something I should be doing? How do I wreck myself without actually physically wrecking myself?

Sincerely,

Distressed Restless Yinzer

**Dear DRY,**

I was just recently watching Keeping Up with the Kardashians, and in episode eight of season five, Scott

courtesy of Flickr Creative Commons

...and Kourtney also tackled the issue of vaginal dryness, and, in my opinion, poorly. They were so ashamed to be seen buying lube that The Lord paid a stranger to go in and do the dirty work while he and Kourtney hid discreetly in the Benz. Nobody should be ashamed to use lube.

In fact, I might go so far as to suggest that all women carry lube in their purse just in case. Not to mention, alcohol is scientifically proven to make things even worse. Imagine waking up with a hangover. Now imagine waking up with a hangover in a guy’s bed with a sore hooha.

It’s better to be safe than chafed; lube can be the difference between inflammation and gratification. So don’t be a noob, insist on lube.

Okay, rhyming aside, you deserve to enjoy hooking up just as much as — if not more than — your partner. Even if he isn’t as generous as he should be, the bar should be set higher than “not in pain.”

Hooking up can be fun, but don’t be stupid. Don’t drink too much. Text your friends the address of where you are so you don’t get abducted. Use protection and lubrication.

Happy trials to you,

Sarah

Need advice? Send queries to advice@thetartan.org.
A long time ago, most of us didn’t even think about what we were listening to our music on. The stark white earphones that came with your iPod (like I said, a long time ago) were all that most people even considered. Today, things are decidedly different. There are so many options to choose from, and so many different types of options to choose from, that picking a pair of good quality earphones is often a more agonizing decision than picking an apparently far more complex product such as a phone or a laptop. The flip side, of course, is that most products you can buy are exponentially better than the old clunky white Apple cans. This situation isn’t helped by the fact that what you’re buying — good sound quality — is decidedly subjective. While some people love bass heavy Beats, others despise them for their lack of balance.

Here we provide some basic buying advice for mid to high end personal audio gear. If you’re finally looking to ditch that pair of iPod earbuds, join the dark side and invest in a nice pair of earphones for yourself, read on:

Shape & Size:

Earbuds: These are the tiny things that go inside your ear. The iPod earphones are an example of these. They’re typically very convenient and can be worn pretty much anywhere, including during physically strenuous activities such as a workout. Most high quality earbuds today are “in-ear” earbuds. This means they fit reasonably deep inside your ear canal, creating a vacuum seal that prevents outside sound from leaking in. The biggest disadvantage of earbuds is that their tiny size puts a hard limit on how good they can sound. They can never produce the wide soundstage, or the deep and warm bass of a pair of large headphones.

Headphones: Headphones are much bigger. The medium sized ones typically sit flush on a user’s ears (called on-ear headphones), and the massive ones go around and completely enclose a user’s ear (called around-ear headphones). For personal listening, nothing can compete with a great pair of around-ear headphones if your only priorities are sound quality and comfort. When done right, these things can sound like a live band playing on a stage right in front of you. What you compromise on, obviously, is portability. Good luck wearing one of these on a walk to class, or better yet, to a workout. Also, while these things are great at isolating you from the outside world, they tend to leak your music to the outside world. So listening in any reasonably quiet space, such as a library, is often out of the question.

Priorities:

The most common rookie mistake that one can make is to buy a pair of earphones gauging sound quality and sound quality alone. Earphones are things that are going to be on or around your ears for extended periods of time. Are they comfortable? Do they come on and off easily? Are they too heavy or too light? It pays to think about these things when buying a pair. Equally important is how they look. There’s no point having a spectacular pair of earphones that you’re embarrassed to wear in public because they’re neon yellow with skull logos all over. Ultimately, of course, the most important factor one has to consider is price. The good news, however, is that the law of diminishing returns holds true particularly strongly when it comes to audio gear. The difference between a $20 and $100 pair of earphones will be more significant than the difference between a $100 and $300 pair, and the difference between a $300 and $1000 pair is even less. Unless you’re a real audiophile, or have way too much money to burn, don’t even think about earphones that go over $200 — $300.

Marketing and Fact:

Noise Cancelling vs Noise Isolating: Noise cancellation was a pretty neat feature introduced by Bose (still the pioneers in the field) about a decade ago. The idea is that in addition to your music, your earphones emit sound that effectively ‘cancels’ the ambient noise. This results in an unbelievably, almost creepily serene listening environment. Today, several earphone manufacturers have products that implement this feature. The flip side is that Noise Cancellation uses a lot of power. Earphones that have this feature will usually have a built in battery that needs to be charged every once in a while. Another, more purist argument is that by introducing extra sounds into the output, these earphones don’t accurately recreate the listening environment. Noise Isolation, on the other hand, is just a fancy word for ‘fits tightly and blocks out unwanted noise’. Noise Cancellation is a really cool feature to have. Noise Isolation is something that any decent pair should have by default.

Wireless vs Wired: This really comes down to the practicality vs sound quality debate. Even today, a wire is much better at transmitting audio data from your listening device to the earphones than Bluetooth. A comparatively priced wired pair will sound significantly better than a wireless pair. Another disadvantage of wireless can be pairing. You’ve got to switch on Bluetooth on two separate devices, select each device from the other, and hope that a connection is established. With wired, you can just plug and play. That said, not having a cable going from your pocket (or bag) to your face is a huge convenience, especially when you’re exercising or generally moving around.

Reading & Research:

Most well established earphones have a ton of reviews online. Some publications that I look to for advice include CNET, Wired, and Engadget. That said, sound, comfort, convenience and pretty much everything else that one looks for in a pair of earphones is very subjective. There really is no substitute for going down to a local store and trying out a pair to see how they fit in/on your ears and gauge whether you personally like how they sound.
Tales from abroad: Feeling alive in Mumbai

Friendly, warm-hearted people and honesty about imperfections give Mumbai a vibrant feel

You know that moment at the concert when your favorite song plays and there is a tangible shift in the atmosphere? An energy starts to build, connecting everyone and synergizing with your heartbeat. You feel the blood dancing in your veins as your heart pumps to the rhythm. In that single instance, everything begins to transcend and you feel truly, unimaginably alive. That’s how I felt for an entire three months during my summer spent in Mumbai — alive.

Mumbai, India is a place like no other. The city where dreams become reality and reality seems like a dream, it is known for being India’s financial capital, tinsel town, and cultural melting pot. Not only is it home to the Bombay Stock Exchange and Bollywood, but also to 13 million inhabitants of different religions, classes, ethnicities, and backgrounds. Its architectural marvels, historical monuments, and mouthwatering street food are only a part of what this vibrant city has to offer.

To summarize my time in Mumbai would be like trying to catch moonlight on my palm. By far the biggest impact on my summer was made by the people of the city. Coming to this city for the first time, completely unaware of everything and having a very limited knowledge of the regional language, I didn’t have high expectations for how my three months were going to pan out. But all of that quickly changed as I started to interact with the people around me. One of the kindest people I met was the caretaker of the guesthouse where I was staying. Originally from Nepal, he works in Mumbai to support his family that currently lives in their native village, thousands of miles away. Every morning I would be greeted with a shy smile and a delicious breakfast, and over dinner he would attempt to teach me Hindi while I tried to teach him English. Those broken bilingual conversations, in which he made an effort to reassure me that I would be okay, warmed my heart.

Another group of people that changed my summer for the better were the friends I made at work. I never imagined that I would connect with people at the work place, let alone make lasting friendships that I can’t imagine my life without now. From sharing strong opinions, corny pickup lines, and plates of food at lunch, to spontaneously going for stand-up comedy shows or go-karting after work, to surprising each other with red velvet cupcakes, I somehow managed to meet “my people.” One day that really stands out was when I was incredibly sick and stuck at work till 7 p.m. One of my friends took me to the hospital, bought my meds, fed me dinner and tucked me into bed all while I was struggling to remain conscious. It’s the big things like these, but also the little things like singing karaoke and eating pizza in the car while stuck in traffic for over two hours or taking a break from work to go on a walk together, that turn friends into family and a city into a home.

I’ve found that the big hearted, strong people of Mumbai are just a reflection of the city itself. The city stands strong in its monuments such as the Gateway of India, a symbol of how the country drove out British oppression. It also stands strong in the face of terror, by rebuilding the iconic Taj hotel after the horrific terrorist attacks on Sept. 26, 2008, and showing the world that despite the bullet holes, it will rebound. It stands strong in respect for religion despite the political and social mechanisms driving the country apart and through its local railway system that transports six million people every day. Most importantly, it stands strong in its honesty to the world. Its glittering skyline coexists with Dharavi, one of the largest slums in the world, home to one million souls.

The city doesn’t back away from its imperfections and eyesores, but embraces them with an openness that is unmatched.

My favorite memory from this summer was when my family came to visit and we went to the beach at night. You could hear the sound of the waves intermingling with sounds of laughter. You could feel the pull of the dark ocean in front of you and the lights of the thriving city behind you. Above all else, you could feel the pulse of the city, the frequency connecting everyone. In that moment, absorbing it all with my family by my side, is when I knew Mumbai had given me the most precious gift — the ability to feel truly, unimaginably alive.

Kruti Koppolu
Staffwriter

Mumbai is home to a variety of diverse experiences, including the Bombay Stock Exchange, Bollywood, and historical monuments just to name a few.
Friday, Aug. 19 at 7:30 p.m., Carnegie Mellon’s Orientation team gathered in Rangos ballroom to receive both their colored shirts and the responsibility of collectively caring for, guiding, and being a friendly face to over 1,500 incoming first year students.

Early the next morning, residents began pouring into the various housing areas eager to mingle, explore, and begin their college careers. Here’s a rundown of the main events that took place during the course of the week:

**Saturday:**
The week kicked off with move in. Students drove in from all around the country and flew in from all around the world. Carnegie Mellon’s staff has long been known to make move in as effortless for incoming families as possible and, like previous years, the day went by smoothly.

**Sunday:**
Sunday night was the first floor meeting for the first years, and served as the first opportunity for students to get to know their RA’s, CA’s, Housefellows, and OC’s. Afterwards, students had the chance to explore the various housing communities as each area hosted a unique block party event. Events ranged from good eats such as the classic grilled pineapples and ham from Morewood E-tower and nachos at Mudge, to root beer floats at the Rez and smoothies up near Henderson. Stever house offered small grass plants for first years to take home and put up in their dorm rooms. Dance parties and karaoke were the main attractions up in the Hill and Donner area, along with Rita’s outside McGill and Boss.

**Monday:**
During house day, first years mingled with residents throughout their dorms through ice breakers and collaborative trips and activities. Later on in the day was community collage, where upperclassmen spoke, sang, and danced their hearts out to display the vast range of cultural experiences that Carnegie Mellon has to offer. Monday night was, of course, playfair, the largest icebreaker of the week. There was running, mingling and dancing galore, followed up by a dance party and a full scale water gun war.

**Tuesday:**
The second full day of orientation donned the famous “Making Your Mark” Talk from John Hannon and Gina Casalegno, who showed students the wide range of opportunities available on campus to help them succeed in fulfilling their goals, no matter how obscure or interdisciplinary they might seem. Students also gather with their floors to discuss Randy Pausch’s The Last Lecture, and what it could bring to their lives at Carnegie Mellon.

In the afternoon, there were trips to the many neighborhoods of Pittsburgh, so that first years could shop, eat, and sightsee while taking in the city. The night began to come to a close with a performance from Craig Karges, who as per usual, left jaws dropped. The Greek Gala capped off the night with desserts, Mike the balloon guy, a photo booth, and of course the many Greek Organizations around campus ready to speak to interested first years.

**Wednesday:**
Wednesday began heavy with seminars on community standards followed up with floor meetings to discuss the expectations of students on campus, and ended with
college night, the much awaited night involved schools coming together and meeting as a community.

Thursday:
Thursday morning involved academic orientation, which lead up to convocation, where students were officially inducted into the student body. After a dinner of endless pastabilities, student had the chance to test their luck in both games and a raffle during Casino Night.

Friday:
Friday morning was a chance for first years to go out and get involved in service activities around the Pittsburgh community through PACE. This year participation in activities gave first years the possibility of earning points for their dorms that counted towards the final scores in House Wars, which took place later that night. After intense competition, with Stever taking first place, Donner second, and the Hill slipping down to third.

Saturday:
Pittsburgh Connections, Poster Sales, Quidditch and Ballroom Dancing were among the many activities that took place on this relatively relaxed day of Orientation. The night, however, was rich with excitement as eleven freshmen took the stage to show off their incredible talents. Along with musical and dance performances, this year brought backflips, glowsticks, and magic.

Sunday:
The final day of orientation involved helping students find their classes and a final floor meeting to kick-off the school year.

Good luck class of 2020+! We’re so glad to have you on campus.
Stories from the soul: When Love Arrives
Introducing a new column designed for student writers to share their creative writing

“Come on! Hurry!”
She yanked me forward, shirt first, through the bustling crowds of Colaba Causeway, one of the biggest and most colourful markets in Mumbai. Caught up in her excitement, I could do nothing but follow. All around me, hawkers sold everything imaginable, from Indian garments and fake jewelry to Senheiser Headphones and glossy magazines.

I was taken back in time as I saw a little ten year old girl lost in the colorful sights and sounds of the market around her. She’d dance from shop to shop. She’d negotiate with vendors five times her age. She’d tell her mother, “Mamma, I want to buy this!” and point at the biggest item she could find at a stall. When the inevitable refusal came, she’d make the biggest scowl she could, and more often than not a compromise would be worked out.

The girl was still present in her twenty one year old body. I saw her eyes widen to twice their size every time she saw something she liked. I saw her subconsciously reach out her tiny hand whenever she felt overwhelmed, or when she shared stories about her idol Eve Ensler, or when she complained about her parents not letting her stay out late.

“I’d wake up three hours before school every Monday, so I could come to Causeway and pick up Theobroma’s first batch of brownies for the week,” she told me as we walked along the pavement, and I couldn’t help but smile.

“Hey, don’t you dare laugh at me mister!” she glared at me, prompting me to break into laughter.

“Jesus, couldn’t you wait till after school?!”

“No, of course not!”
Families rushed past, hawkers cried out, and she pulled me along. Suddenly locking those gigantic eyes with mine, she said, “We’re going to the end of the market, all right?”

“All right,” I grumbled, feigning submission in an attempt to find an appropriate response to her unabashed glee. I was in a place I’d never been to before, with someone I’d met a week before. And yet, I hadn’t felt so alive in a long time.

“When love arrives, let it. When it goes, don’t cling to it. Set it free. Just be.”

“I don’t want to force it,” she said to me over lunch, my arm wrapped around her waist. “And neither should you. When love arrives, let it. When it goes, don’t cling to it. Set it free. Just be.”

It was in moments like these that I was given a glimpse into how she worked — her thoughts and her emotions as they transcended the mundane and poured themselves out into the open.

We slanted in different ways — there was very little we agreed upon. We could never agree on where to go for lunch. While I liked my food simple and light, she wanted the spiciest Indian food she could find. While I’d do my shopping at a mall, she’d do hers at a bustling market like Causeway. While I couldn’t possibly reason something through enough, she was the most impulsive person I knew. From her bright red hair to her assortment of wrist gear to her eccentric Indian clothes, she was unlike anyone I had ever met. Reaching a common ground with our radically different worlds seemed a distant hope, almost an impossibility.

Oblivious to my musings, she dragged me along. As we walked on, we entered a tunnel and were momentarily surrounded in darkness. I found her looking at me. “Wow,” her eyes spelled as I looked on. “I know right,” I looked back. I knew because in that brief intersection of our gazes and between the sheer absurdity and improbability of it all, we had found love.

Abhishek Tayal | Pillbox Editor

moviesinmcconomy
McConomy Auditorium, Cohon Center

Zootopia
Friday, Sept. 2
10:30 p.m.
Sunday, Sept. 4
8 p.m.

Since its release in February 2016, Zootopia has quickly gone on to become a modern animated classic. Its namesake metropolis, the setting of the movie, is home to a diversity of anthropomorphic animals, prey and predator, land and sea-faring, large and small, that have evolved beyond the primitive violence of the wild, and have learned to live together in harmony. When this peace is disturbed, it is up to rookie rabbit cop Judy Hopps (voiced by Ginnifer Goodwin), the first rabbit police officer in a department full of intimidating animals, to investigate a series of strange occurrences while maintaining the delicate harmony between species that Zootopia is home to. Zootopia is an animated movie that deals with profoundly mature themes — from racial stereotyping to societal ignorance and paranoia.

The Man Who Knew Infinity
Saturday, Sept. 3
8 p.m. & 10:30 p.m.

The Man Who Knew Infinity tells the true story of Srinivasa Ramanujan (played by Dev Patel), one of the pioneers of mathematics in the early to mid-twentieth century. Ramanujan was born to poor parents in colonial Southern India. Through his mathematical genius, he reaches beyond his humble financial background, his lack of early education, and most importantly, the prevalent racism of the era to earn the profound respect of the mathematical community. The Man Who Knew Infinity focuses on his early adulthood years at Cambridge University, where he meets his lifelong mentor, G.H. Hardy (played by Jeremy Irons).
I'm My Own Mascot by Kevin Bolk

K-Bo's FOOD HACKS

TODAY I'M GONNA SHOW YOU HOW TO USE A FEW SIMPLE SPICES TO MAKE CHEAP COFFEE FEEL FANCY AND TASTE BETTER.

JUST USE SOME CINNAMON, CARDAMOM, NUTMEG, AND A DASH OF CAYENNE PEPPER. NOW THAT CHEAP COFFEE IS LIKE AN EXQUISITE TREAT!

HOLD UP...

WOULDN'T IT HAVE BEEN CHEAPER AND EASIER TO JUST BUY THE MORE EXPENSIVE COFFEE THAT YOU DIDN'T HAVE TO MESS WITH?

THE POINT OF A HACK IS TO BE CLEVER, NOT SMART.

OOF...

Saturday Morning Breakfast Cereal by Zach Weinersmith

UGH, FIRST I WAS AT THE AGE WHERE EVERYONE'S GETTING MARRIED. SO, I HAD TO GO TO A MILLION WEDDINGS.

NOW, I'M AT THE AGE WHERE EVERYONE'S HAVING BABIES. EVERYWHERE I LOOK, IT'S BABIES BABIES BABIES.

I'M AT THE AGE WHERE EVERYONE'S DYING.

BABIES ARE OKAY.
Antics Comic by Stephen Gillan

Want to go see a movie? There’s an explodey one on...

Possibly! Just let me check with my piggy bank first.

Good afternoon, you’re speaking with Kevin.

almightyfletcher@gmail.com

anticscomic.com
Thursday 9/1

**Free Day at Pittsburgh Botanic Garden.**
Pittsburgh Botanic Garden. Admission: Free

Enjoy the day at the Pittsburgh Botanic Garden with over three miles of trails and a serene Asian lotus pond. The Pittsburgh Botanic Garden, one of the largest botanic gardens in America, was transformed from reclaimed, industrial land. Adult tickets usually cost $9, so take advantage of free entry into the gorgeous Botanical Gardens.

Friday 9/2

**Cohon Center Welcome Celebration.**
Cohon Center. Admission: Free

Welcome the new addition to the Cohon Center with a day packed with free events, music, and dining deals. All Group X classes will be free and the film Zootopia will be shown in McConomy for free as well. The Activities Board will present musical performances in Skibo Café from 11 a.m. to 2 p.m. and “Louis the Child” in the Studio Theater at 7:30 p.m. Also, the Volunteer Fair will be held in in Rangos from 11:30 a.m. to 1:30 p.m. and Fitness Center Tours will be ongoing from 11 a.m. to 4 p.m. Don’t forget to attend free dance lessons and participate in various games and activities outside of the Cohon Center as well.

Saturday 9/3

**Pittsburgh Folk Festival.**
11 a.m. - 10 p.m. Admission: Free.

The Pittsburgh Folk Festival will celebrate its 60th anniversary with performances, food, crafts, and more. The Pittsburgh Folk Festival, a consortium of over 30 organizations, presents the festival each year to exhibit the diversity in the Pittsburgh Metropolitan area. Eat cuisine from more than 20 countries and meander the marketplace filled with gifts and handmade crafts. The festival will continue into Sunday.

Sunday 9/4

**Pittsburgh Folk Festival.**
Schenley Tent Plaza, Oakland. 11 a.m. - 6 p.m. Admission: Free.

Ongoing

**Butterfly Forest.**
Phipps Conservatory and Botanical Garden.
Now - Sep. 5.
9:30 a.m. - 10 p.m. on Friday.
9:30 a.m. - 5 p.m. Saturday to Thursday.

Admission: $15 per adult. Free with Carnegie Mellon ID.

Phipps Conservatory presents their annual Butterfly Forest in the Stove Room where visitors can learn and see the lifecycle of various butterflies. With over 20 species of butterflies, the enchanting Butterfly Forest provides an adventure that is family friendly and allows the opportunity for visitors to come up close to see nature at its best. If you’re lucky, perhaps a butterfly will land on you! Entrance into the conservatory is free with a Carnegie Mellon ID.

Compiled by Pauline Ting | Asst. Online Editor

Want your event here?
Email calendar@thetartan.org.
Orientation Week is a time for all the incoming first-years on campus to become familiar with the campus and each other. This week-long event features several activities ranging from Playfair, to convocation, to a magic show. By the end of the week, students are sure to be ready to take on Carnegie Mellon with a host of new experiences and new best friends by their side.