

Student caught choking the chicken in Gates bathroom

JOEY PEISER
Never too old for this

Sophomore computer science major and all-around nice guy Paul Reubens was caught slapping the salami in a third-floor bathroom in the Gates Center last week. Carnegie Mellon Police discovered Reubens, whose

kielbasa-cuddling habits in Hamerschlag dorm are still legendary, smack dab in the middle of roughing up the suspect in question. A disgusted professor summoned law enforcement after overhearing the unmistakable sound of squishing the squidgie in the bathroom from inside his office.

“It’s appalling; these students thinking they can go to the palm prom whenever and wherever they please. Carnegie Mellon students need to learn that if they want to shufle their iPod in public, they must rise up the professional ladder and get their own office like I do. Then they can argue with Handy Longfellow until

the cows come home,” the professor in question remarked. When asked why he felt the urge to polish his Oscar in the Gates bathroom rather than the privacy of his own room, Reubens confessed that the thrill of diddling his skittles in a public place had made it a compulsion. “I can’t shake this uncontrollable need to play

one-handed baseball in inappropriate forums, such as Greyhound bus bathrooms and the big and tall section of a J.C. Penney department store. I’m entering counseling for my affliction, and hopefully I’ll overcome the urges that tell me to slam the clam where people might see,” Reubens announced in an emotional

video statement to the Carnegie Mellon community. Many students have reacted to Reuben’s video. Students have been joining in solidarity with Reubens, as many students have been taking to campus bathroom stall walls to confess that they, indeed, have tickled the taco in that place before.

McDonald’s: a newly discovered 5 star bistro



Courtesy of Yuyu Tamai via Flickr

IAN TANAYA
Fine Dining Connoisseur

Although I take pride in a lot of things about Carnegie Mellon, its immediate area suffers from a lack of available restaurants, Craig Street notwithstanding. When I want some tasty, totally unhealthy food fit for a college student’s tastes and budget, I have to head for the places surrounding the University of Pittsburgh. There, the scene resembles a traditional college town: A whole bunch of places screaming for the patronage of young adults grabbing a bite to eat. On one such occasion, I found myself walking toward venerable establishments

like Primanti Brothers, Qdoba, and Panera Bread, but noticed a restaurant hidden in the midst of everything with the strange name of McDonald’s. Curiosity got the better of me, and I found myself navigating through the doors, finding an interior full of booths and tables. Evidently, the place did not have full service, as there was a very long line of people looking to order food. Though I worried that I might not be able to grab anything and get back to campus on time for my next class, I found that the line moved fairly quickly. Though the line had stretched to the last doors when I came through, I still managed to make it to the front of the line

in a little under three and a half minutes. I also noticed that people did not seem to wait long before receiving their orders in bags and departing the establishment, perhaps with urgent business to take care of. As I waited for the last few people ahead of me to order, I gazed at the menu, and I was astonished by how low the prices were. A double cheeseburger, dubbed the “Big Mac” with three whole buns, was priced at under \$4.50. I looked further and found a surprisingly large offering of “Premium Chicken Salads,” each offering a healthy amount of greens, grilled or fried chicken, and various add-ons like bacon, for as low as \$4.59.

Another menu feature that caught my attention was their “All Day Breakfast Menu.” Various intriguing options, like the enchanting “Egg McMuffin,” sounded like temptations for a future visit. My eyes turned back toward the lunch items, and I saw a deal that I couldn’t believe I had overlooked: the McPick 2 for \$5. The Big Mac was on it, and my mind already liked the idea of getting two double cheeseburgers for only \$5. Of course, my more rational side thought having so many patties might get tiring, so I considered the other possibilities the deal offered. I was surprised to see that this place would offer seafood in the form of a “Filet-o-Fish,” but I did not hear the

CMU is willing to take souls

INDIA PRICE
JADE CROCKEM

Not girls, not yet chicken and waffle connoisseurs

In light of recent tuition increases, students are finding it harder and harder to pay for tuition. Families are cutting back and younger siblings are being forced to find cheaper options for school because their older siblings spent all of their parent’s money on Carnegie Mellon. But now younger siblings can reignite those dreams of an Ivy League education, because the financial aid office has created a new program that allows students to pay for their education with their souls. The program, very creatively named WeBuySouls, is an option recently made available to all students. In the past, the application for selling your soul to Carnegie Mellon was lengthy and many a student opted for the more traditional financial aid route. However, WeBuySouls has streamlined their application process, making the transaction more efficient and affordable for all interested applicants.

We at The Tartan had the opportunity to sit down with the program’s founders to talk about their inspiration for the program, and their plans for the program going further. Though excited with the progress already made, WeBuySouls has plans to expand the program to accommodate students who aren’t interested in giving up their souls. “We don’t want to discriminate against anyone,” said student Anisha Padwekar, the genius behind it all. “We hope that in the near future we can expand WeBuySouls to include options such as limb payment.”

A great feature to the program is that WeBuySouls does not lock students into yearly contracts. With the Soul-Buy-Back feature, any student who chooses to opt out of their settlement with WeBuySouls can buy back their soul at a low cost. WeBuySouls does not guarantee, however, that your soul will be returned in its original condition. Some schools in the area have already received WeBuySouls’ latest payment plan, which now accepts blood, sweat, and tears as viable currency. We are told that Carnegie Mellon is on the list of schools to receive the program expansion soon. Students can expect to see the additional “Blood, Sweat, and Tears” financial aid option this coming fall.

Disney announces a “High School MUniverse”

SYDNEY ROSLIN
High School Musical Expert

Reeling from the recent successes of the movies its Marvel Cinematic Universe, including box office hits such as *Ant-Man*, *Guardians of the Galaxy*, and *Captain America: The Winter Soldier*, Disney executives have announced their next big project — a slate of films exploring the universe of the hit Disney Channel Original Movie, *High School Musical*. “We have realized that the kids who originally fell in love with *High School Musical* are not kids anymore, so as those kids grow up, we’d like to grow the franchise with them,” said a Disney spokesperson. “The *High School Musical* Universe, or the ‘*High School MUniverse*’ as we call it here at Disney, aims to expand a movie world that previously just encompassed life at a high

school, and really give audiences a look at the real-world experiences that these characters go through.” Phase One of the *High School MUniverse* begins with *What Do I Do After School Musical*, to be released in May 2017. Just in time for graduation season, this movie follows the beloved *HSM* cast through their final months of college, as they encounter frequent panic attacks and realize they do not have a plan for their life after graduation. In December 2017, Disney will release *Living in My Parents’ House but it’s Okay Because I Am Only a Few Months Out of School Musical*, a charming holiday tale that has family tensions running high as the singing, status-quo-breaking college graduates struggle to find jobs while still being supported by their parents.

Valentine’s Day 2018 will bring *It Was So Much Easier Finding Other Single People Back in School Musical*, a date-night movie that follows the confused, musically inclined adults through the stresses of online dating and going on coffee dates with “that nice young man from Grandma’s congregation.” Finally, the last movie in Phase One will be *All My Face-book Friends are More Successful than Me, I Should Have Gone to Grad School Musical*, slated for release in theaters on Thanksgiving Day, 2018. While movie titles have only been released for the Phase One movies, rumors have been confirmed that there will be a Phase Two, Three, Four, and, depending on the life spans of the actors, a Phase Five. “We want to truly follow these characters throughout

their entire lives,” a Disney representative stated in a recent interview. “These movies will cover everything. Buying an apartment, getting a ‘real job,’ picking out a cat, getting married, having a kid or two, getting divorced, hitting a mid-life crisis, trying and failing to write the next Great American Novel, running a carpool, getting fired from work, trying to find purpose in life, handling the kids as they go through that rebellious stage and decide that they don’t want to sing at all during any point in their high school years, we want to bring it all to the big screen. Time permitting, we even want to do a series of movies in nursing homes. This will quite literally be a franchise that lasts a lifetime.” Another circulating rumor regarding the *High School MUniverse* is the potential for

stand-alone spinoff films that will still remain in the HSMU canon. Conversations have mentioned a movie entitled *Janitor of the High School Musical*, which will focus on the life of the janitor who apparently “saw the whole thing go down” in regards to the original *High School Musical*. There is also discussion of the title *Unions in the School Musical*, a behind-the-scenes look at the strength of the teachers’ union in East High. Regardless of these rumors, it is clear that Disney has a series of blockbusters on their hands. Fans are excited to see the progression of the MUniverse over the years. Between the Marvel Cinematic Universe, the Star Wars Saga, and the High School MUniverse, Disney will certainly have audiences flocking to movie theaters for years to come.

FEATURE PHOTOS

CC turnaround nearing completion



Courtesy of Ryan Kelly via Flickr

The Cohon Center expansion project, which includes the construction of an exquisitely paved vehicle turnaround and an exciting, new dining facility tentatively called “Skibo Cafe,” is set to conclude on schedule and make the 2016 commencement ceremonies more inconvenient than ever before.

Students attend class, learn things



Courtesy of Anirudh Koul via Flickr

Crowds poured into lecture halls across campus last week to listen to educated professionals share their knowledge. All students were eager to take advantage of this novel opportunity to discover new ideas and concepts on a college campus, an experience many thought was no longer possible.

Campus Crime & Incident Reports

Broken Door

April 4, 2016

A student stormed out of Wean 7500, slamming the door in the process and breaking it off its hinges. The student claimed that he became frustrated when his professor couldn’t work the projector, and had no choice but to storm out.

Drunken Fight

April 4, 2016

A student was found early in the morning sleeping by the “Walking to the Sky” statue and appeared to have a black eye. Security footage revealed that the student had drunkenly attempted to fight the people on the statue the night before. The student lost.

Bagel Theft

April 5, 2016

A student was caught stealing an everything bagel from Entropy+. It was reported that the student chose to uphold the Carnegie Mellon Code and voluntarily withdrew themselves from the university.

Bad Apple

April 6, 2016

After purchasing and cutting open an apple from Entropy+, a student allegedly found a portal to the underworld. The apple subsequently engulfed nearly everyone in the room, leaving only one survivor. There is currently an ongoing investigation. Updates to come.

Lost Cutout

April 7, 2016

A cardboard cutout near and dear to many people’s hearts was stolen from the Cohon Center this past weekend. The cardboard cutout was of beloved former Editor-in-Chief of The Tartan, Ryan Stromboli.

Loose Change Theft

April 7, 2016

The investigation into last week’s heinous theft of \$1.50 in loose change is still ongoing, with detectives following a number of promising leads. No suspects have been officially named, although inside sources have indicated that authorities are close to making an arrest.

Underage Drinking

April 14-16, 2016

University Police and CMU EMS have decided to stay ahead of the game and save everyone some time and issue underage drinking citations related to Carnival for a large portion of students aged 18-20. Among those whose citations were considered “inevitable” are the Hamerschlag B tower, Pi Kappa Alpha’s Fall and Spring pledge classes, and that really quiet girl who sits behind you in 15-112.

When asked if this preemptive strike strategy will continue for future Carnivals, University Police assured that they would never squander a great abuse of power like this one.

“Overheard @ CMU” Facebook group named CMU’s number one news source

JOEY PEISER

Knows the truth

Overheard @ CMU has now overtaken the Tartan as Carnegie Mellon’s number one source for general campus news. A poll circulated by Student Government to guide budget allocation for campus media revealed that 90 percent of respondents wrote-in “Overheard @ CMU” as their “most trusted source for important information related to Carnegie Mellon,” with only 5 percent ranking the Tartan as their number one. 2 percent of students ranked ReadMe as their number one, and The Cut ranked number one among WRCT members and first-years with vinyl record players in their room. Many other students have cited waking up and checking Twitter as their source.

The results, however are not expected to negatively affect The Tartan’s budget allocation too dramatically, for its status as a media organization makes it privy to the global control conspiracy that gives the powers that be a vice-like grip on the minds of the masses.

“While we are fully aware that humanity and its increasing interconnectedness is opening the possibility of alternative news sources based in interpersonal communication, we currently foresee at least one additional generation of media control. The Tartan will still receive the necessary budget to continue pursuing its mind control tactics for the time being,” assured The Tartan’s faculty adviser.

Take your soma; everything will be alright.

Tartan endorses No Confidence for SBP

TARTAN BOARD

Swaying all of your opinions

Reflecting on the Student Government debates this past week, The Tartan would like to announce its official endorsement of No Confidence in the races for Student Body President, Vice President for Organizations, and Vice President for Finance.

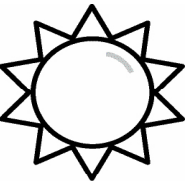
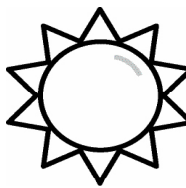



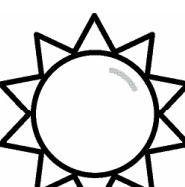
On Thursday night, students gathered in McConomy Auditorium to ask candidates tough questions and demand thoughtful answers. Throughout the contest the candidates engaged in lively discussion and gave fairly convincing answers, but they simply could not and will never compete with the silent reassurance that No Confidence embodies.

Carnegie Mellon students have been, are, and

will forever continue to be the best, and they deserve the best. And much as the candidates in this year’s contest have tried, they have not proven themselves as more than capable to lead this student body. No Confidence has the particular advantage of not being any of the other candidates.

These are positions that affect every student on a daily basis, therefore every student has a tremendous stake in the outcome of this election. We cannot place the future of this campus in unqualified hands. If you’re a student who wants to see meaningful change at Carnegie Mellon University in the coming term, The Tartan urges you to cast your vote for No Confidence for every position. It is the only way to ensure the best candidate wins.

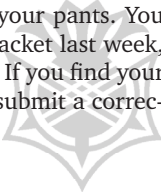
WEATHER

TUESDAY	WEDNESDAY	THURSDAY
		
82° / 33°	110° / 30°	44° / 69°
FRIDAY	SATURDAY	SUNDAY
		
36° / 82°	456° / -0°	50° / 420°

Source: Grandma’s arthritis pain

Corrections & Clarifications

If you would like to submit a correction or clarification, please go looking for your sense of humor because it appears to be lost. Perhaps try looking under the couch (doesn’t everything you lose end up under there?) or maybe try checking in your pants. You laughed while you were wearing that jacket last week, maybe your sense of humor is in there? If you find your sense of humor and still would like to submit a correction, please get a life.



LETTERS TO THE EDITOR

A B C D E F



Science & Technology

God particle discovered, unimpressed



JOSHUA “IN PRINT” BROWN
Former Spice Girl, Ginger

There has been a lot of hype in the recent years regarding the idea that we are all made in God’s image. Laminin, an integral component in the structural framework of nearly every tissue in the body, is a protein which is shaped rather interestingly

like a cross. Researchers who discovered laminin cited primary research literature, such as the hypothesis presented in Colossians et al., 1:17, which purports that “[God] is before all things, and in Him all things are held together.” They made the case that since laminin holds us together, it’s composed of particles, and since we’re made in God’s

image, then the particles that make up laminin must be God particles.

In order to prove their findings, researchers synthesized a whole bunch of laminin molecules and ran them through an incinerator. This caused a chemical breakdown within the protein, as its dynamic folding patterns began to denature, and eventually,

the particles bounced freely from the cross-like structure. The researchers then caught the particles with microscopic butterfly nets and herded the bouncy little fellows into a glass slide. After slipping them under the microscope, a curious thing happened. The first researcher who tried to look through the microscope died on the spot.

“It all happened so fast,” said Alexander Flemming, a research professor in Carnegie Mellon’s Department of Theological Physics and the project’s lead researcher. “In his haste, he forgot one of the most fundamental tenets of our discipline, Exodus et al., 33:20, that ‘no man may see God and live!’ But it was time, I suppose. The Particle has a plan, and who are we to question it?”

Rather than trying to view it through a microscope, the researchers quickly donned protective welding masks and placed high-frequency microphones next to the petri dish to try and determine whether the particle were sentient or not. When the researchers played back the audio from the mysterious particle, the recording was a bit jarring.

“Seriously? It took you this long? This is just embarrassing. Come on, guys, you’re ruining my image.”

In an interview with The Tartan, the God Particle had this to say:

“Bruh, SMH, don’t get bitter, just get better.” The Tartan refused to offer a response, but the conflict was resolved after a savage dance battle.



Courtesy of Vishal via Flickr



HOW THINGS WORK

How things work: personal growth and development

ARIEL HOFFMAIER
Quarter-Life Ongoing crisis expert

The first step to personal growth is to stare into the abyss. Locate your own special abyss and ask it how things have come to be the way they are. The abyss will probably tell you it’s your fault, you idiot. But do not listen to the abyss when it’s in such a bad mood. Soon, it will brighten up once again and envelop you in its velvety blackness, where you can get lost only to find yourself again — a newer, shinier, fresher version of wonderful you.

Now that you are in the abyss, think about everything you have ever done wrong. You have to think about all of your stupidest mistakes

at the same time, otherwise the abyss will be displeased. You do not want a displeased abyss on your hands, trust The Tartan. It will eat you.

If you feel your body slowly filling with lead, and your mind bursting through your forehead, that’s good. That means the process is working. No one told you this would be fun, did they? The Tartan is sorry to tell you that self-improvement, much like beauty, is pain. But if you just make it through the next few steps, you could have a trophy for most beautiful person ever, inside and out. The abyss will not give you this trophy, nor will The Tartan, but you could always make one yourself. That’d be kind of sad though.

Wait, are you crying? Are you actually crying right

now? There’s no crying in the abyss, and it says as much on the entry sign, so you’d better quit the waterworks or — well, now you’ve done it. You’ve awakened the abyss. Poor thing; it’d been having such a nice nap.

How about you put aside all of that introspection for now and try to negotiate with the abyss? Why don’t you flex those conflict-resolving muscles? No, The Tartan doesn’t speak abyss; we thought *you* did. You were the one waltzing in out of nowhere, whining about personal growth. You’d better run, honestly. Run from your problems! Run!

The Tartan would like to disclaim any responsibility for the horrors experienced in the abyss. Please stop crying.

An exclusive tour of the new singularity bunker in basement of Warner Hall

SARAH GUTEKUNST
Rodent Commander-in-Chief

This past week The Tartan got the exclusive opportunity to travel through the foundation of Warner Hall to tour the brand new H. Guyford Stever Singularity Bunker.

University officials, increasingly unnerved with each passing day at the seemingly endless potential of the technology we house, announced that this new construction is Carnegie Mellon’s approach to security in the 21st century. “Artificial intelligence technology is growing faster than the rate that we can conceive of its growth. It’s only a matter of time before we welcome our robot overlords, and you can bet your

bottom we will all be cowering underground,” reported an anonymous source.

According to Wikipedia, the technological singularity will occur when machines that we create become capable of exponentially recursive self-improvement until they achieve a level of intelligence that surpasses human understanding. According to Wikipedia, futurist Ray Kurzweil predicts that this will happen around 2045, but science-fiction author and computer scientist Vernor Vinge only gives us until 2030. But really, who can know for sure?

The bunker has just one entrance and no exit. A hidden elevator in Warner Hall takes riders seven stories underground to a structure that

spans another five stories down. But once the University President opens the bunker, officials have a mere two hours to make it underground before the elevator shuts off permanently, never to be used again.

Thanks to sponsorship from Google, Duolingo, Dropbox, and the Department of Defense, the bunker is outfitted with all imaginable comforts and safety precautions. Cisco also sponsored each bunker resident for one call to say goodbye to a loved one.

Officials are sufficiently secure that they will survive at least a year or so before the overlords come to enslave them. They may be our superiors at the university, but we are all equal in death.

SCITECH BRIEFS

Briefs (For Support)

Brief-style underwear was invented in 1930 by President Calvin Coolidge’s lady-friend, Bernice Anders. Inspired by the president’s own brief manner of speaking, the undergarments provide both the modesty and support that the everyday man craves. The first briefs ever donned were constructed out of leaves and used to shelter Adam’s naughty bits from God’s all-seeing eyes, back in 2012. Since then, the style has become a fan-favorite of men who want to feel supported and safe. A pair of briefs were elected mayor of a small Kentucky town in 1998, when a citizen made the case that nobody would support him and his family as much as Calvin Klein.

Boxers (For Freedom)

These products, often made of cotton, provide the maximum range of flexibility and the minimum of compression. However they lack in the support and the consolidation provided by boxer briefs. By utilizing only natural fibers, many of these veer the asymptote of limited smoothness, prohibiting thread counts above 1,000 for fear of instant death. These classic designs provide the most freedom but risk bunching and displacement. While seemingly the most straightforward of the designs, the humble boxer has the highest statistical variance and shallowest curve of any of the designs being surveyed. Though the risks for an awful pair are low, the risks for mediocrity are great.

Boxer-Briefs (For Supportive Freedom)

The combination of spandex and cotton or nylon provides these beauties with the perfect blend between structure and support. Specifically engineered to cooperate at the maximum dangle angle of 23 degrees from the horizontal in order to prevent spillage and maintain flexibility by means of the elasticity of the material allowing for stretch and give. The maximum tensile strength ensures that the fabric will not in fact collapse under the weight of any package it is given due to the 5 – 10 percent spandex added to the natural or synthetic fibers. The result is a comfortable, yet structurally sound garment that can hold even the heaviest of cargo.

Thongs (For Fun)

Thong underwear first scampered onto the scene in 1654, when a feral child was discovered in the woods of Berlin, NH. He was malnourished and dehydrated, and he had no developed language skills, but what he did have was an acutely developed eye for fashion. The young lad, approximately seven years old, had crafted for himself a loin covering consisting solely of dental floss. The researchers to whom he was brought gave him a routine medical examination and then focused their attention to the real issue at hand: how to reverse-engineer and mass-manufacture his undergarments. Through this experimentation, the thong was born.

Jockstraps (For Nuts)

The distinctive jockstrap style was invented by former bodybuilder and California governor Arnold Schwarzenegger in 1883 while he was practicing his flexing routine for election season. Schwarzenegger’s flexed glutes proved too powerful for the measly fabric of his Fruit of the Looms, and while the fabric was obliterated, the elastic bands held strong. Thus was born the breathable, aesthetically ambiguous, and fetishized article of athletic support which we all know and secretly love. Jockstraps are the number one import for Florida and California, and the number two export of Utah, after certain other types of undergarments.

Longjohns (For Toasted Nuts)

These synthetic fiber based warming garments are intended to keep your legs toasty in the winter. However, there is a more sinister underbelly to these cherished brief derivatives. Since these are most often made of synthetic materials in order to best trap the heat, it is important to ensure that you don’t get too toasty, for if you catch on fire and the longjohns will in fact melt (unlike natural fibers) forming a fitted and scalding cast for your legs to sear beyond repair. While these long underpants are designed to promote maximum warmth through use of polyester that traps the heat in by restricting air-flow, this same design could seal your legs in a fiery tomb of melted plastic and regret.

Compiled by
JOSH BROWN,
THEODORE TEICHMAN



Greek community communes together as a community

JOEY PEISER
Buys his friends

This year’s Greek Sing event once again proved that the talented Greek community can come together and celebrate their achievements as a community. The annual celebration has raised hundreds of

thousands of dollars for charities such as St. Jude’s Children’s Research Hospital and Our — not your — Clubhouse, and this year’s event saw members of the Greek community showcase their talents in an impressive demonstration of community. Members of the Greek community had

a lot to say about this year’s talent and what Greek Sing means for their community. “It’s just so amazing what this community is capable of when we come together as a community. Greek Sing is not just an important event for the Greek community, but the Carnegie Mellon community

and larger Pittsburgh community as well,” said junior design major and Greek community member Jessica Stiles. “The positive impact our singing and dancing has on the community is really felt when we stroll into Our Clubhouse and all of our friends are there and smiling like one big happy

community,” said senior social history and technical writing and communication double major Dan Comstock. Associate Director of Greek Life Jesse Koch also praised the Greek community on its impressive self-congratulation efforts as a community. “This community means so much more

than other communities, it’s a community where one can be a part of a great community that communities harder than any other community I’ve ever seen. I’m community of you guys, and I hope you keep communicating your community for every other community to see.”

Entropy named world’s top exporter of fruit, students capitalize on apples



Theodore Teichman/Ties a tight manbur

JADE CROCKEM
Not a girl, not yet a woman

Entropy+ has long been servicing the fruit needs of the students of Carnegie Mellon. With a wide variety from apples, to bananas, to the occasional mango, Entropy+ consistently provides a quality of fruit that is definitely equivalent to how much we pay to go to this school. It should come as no surprise that this farmers market quality fruit has attracted the attention of other countries, and they like what they see. Entropy+ has been named the world’s top fruit exporter, leaving China, India, and Brazil in its wake.

All of the Carnegie Mellon community is very excited about this news. “I have always loved getting the fruit here. I fill out every survey on time in hopes of getting a free treat from Entropy+. I always go straight to the apples because

there’s always something in them. I can’t quite put my finger on it, but it tastes great,” says India Price of the on campus convenience store. With this large outsourcing of fruit however, many students are concerned about their ability

delicious or granny smith anytime, anywhere. Further, a whopping 98 percent of students responded that on-campus eateries, especially Entropy, carried the most mouth-watering apples they’d ever laid eyes on. “The apples at

Needless to say, students have decided to capitalize on this decision and have fruit imported directly to their front doors. Students will be able to import fruit from Entropy+ by filling out a form on Student Information Online (SIO) under the new tab entitled “fruit imports” throughout the semester. Some students complained that using SIO has made exporting harder.

The fruit of Entropy+ has increased the health and happiness of campus. In a statement realeased by Entropy+’s Culinart employees to The Tartan, “[Entropy+] will strive to always serve the freshest and most nutritious fruit to the students across campus. We have always, and will always put our students’ nutritional needs above all else.” The Tartan would like to issue a sincere thank you to Entropy+ on behalf of the student body for their dedicated service.

“I have always loved getting the fruit there. I fill out every survey on time in hopes of getting a free treat from [Entropy+].”

to still recieve it. It was a much appreciated campus convenience and students want to make sure it is still available.

A Gallup poll of Carnegie Mellon students revealed that as a whole, the student body is indeed hungry for apples. 92 percent of students questioned responded that they, in fact, like them apples and would enjoy a glossy red

Entropy are so perfectly round and consistent in color, that sometimes I just walk by them and admire them for the elegant portraits of nature’s bounty that they are”, raved First-year engineering student Sam Miller. Culinart is reportedly planning on capitalizing on the developing apple craze by accepting DineX as a form a payment for fruit exports.

Plastic spoon to be named in honor of a gradually decaying David Tepper

JOEY PEISER
Mad about Midway

A spoon used by sophomore business administration major Jeremy Mahan last Wednesday to sample the cream of chicken soup at The Exchange has been officially renamed in honor of hedge fund manager and Carnegie Mellon benefactor David A. Tepper. President Subra Suresh announced the renaming in a press conference, expressing his gratitude to Mr. Tepper for his continued generosity to the school. 58-year old Tepper, whose vast fortune will fail to protect him from the unstoppable march of time, was awarded the honor for informing an Entropy cashier that she could “keep the change.” Receipt records revealed the exact amount to be 37 cents remaining from a purchase of a bottle of Fiji water.

“Once again, David Tepper has demonstrated a kindness and support of our school that is unmatched. We hope that this plastic spoon, which shall bear his name alongside our school of business and its buildings, reminds Mr. Tepper that we will never run out of things to rename in his honor so long as he has money to give us,” Suresh said during the announcement.

Mahan, when asked about his thoughts on the Tepper spoon, expressed confusion over whether a

worthy spoon had been chosen. “What spoon? The one I used to try the soup, the cream of chicken? Yeah it was pretty good, decided to get a salad. They named it after Tepper? Couldn’t they just pick a new one from the basket? Seems stupid.”

Several students have expressed concern about a plastic spoon not being enough to thank Tepper for his generous donations over the year. Senior business administration major, Tiffany Jackson, responded “I mean the spoon should at least be a real one. Or maybe someone should wash it beforehand. It’s kinda gross to have some random guy’s spit on it if it’s going to be displayed somewhere” when asked what her thoughts were on the honoring of Tepper in plastic spoon form. Despite many students not caring or responding “Oh I didn’t know Tepper was still alive. I just assumed he was another dead guy that was an ex-CMU president,” Carnegie Mellon officials seemed very excited about the spoon and invited Tepper to the announcement of the spoon.

Tepper was visibly moved during the announcement by the honor bestowed upon him, and concluded the ceremony with an expression of gratitude. He was overcome with gratitude as he used a \$100 bill to wipe his tears. “It is the dream of every absurdly wealthy man, from



Joseph Peiser/Figured this out as he went along

Andrew Carnegie to Andrew Mellon, to mock the face of death and achieve immortality through the charade of charitable giving. I will not rest until every square foot of this Earth bears the name of Tepper, and I thank Carnegie Mellon for their help in my aggressive campaign to quell the existential dread of my approaching demise. I’d like to dedicate this spoon to a school that could potentially one day bear the name Tepper University. Hell, why just stop here in Pittsburgh? Here’s to our

universe, the Tepper Way.”

A replica of the spoon will be on display in Tepper Hall as Tepper himself has elected to keep the original spoon in his possession. He is also rumored to have a gold plated version of the spoon that he will use to eat every single one of his meals for the rest of his life. The spoon is expected to retain the Tepper name until its plastic finally breaks down in several millennia, thus ensuring that Mr. Tepper’s finite existence on this planet is validated.

“Each room contained almost 70 desks, despite my estimation that it probably comfortably seats around 20 people.”

I knew I wanted to go on a vacation, and as a college student whose finances fluctuate between having pretty much no money and having literally no money, the main criteria for my destination came down to cost. I crunched the numbers, took out all of the money I had in my name, and finally cashed in the jar of change on my desk. My budget reached a grand total of \$7.29. Astounding. “I’ll just have to go somewhere cheap,” I thought to myself. I decided backpacking was a cheaper alternative to staying at some lavish hotel. I also figured that my Instagram photos and Snapchat stories would be way cooler if I went backpacking, and what are vacations for if not the social media approval of people we don’t even talk to?

After mulling it over I finally decided on a destination: the elusive and enigmatic Alan M. Scaife Hall of Engineering! Scaife Hall is located about 200 miles from my current residence in Morewood Gardens. I was determined to walk to my destination. It would take three days walking nonstop, so I estimated it would take me just under a week if I took breaks and stopped to rehydrate.

Everyone knows that the journey of a thousand miles begins with a single step, but in my case it began with a treacherous walk across Forbes Avenue where I only narrowly avoided being hit by a car. despite the fact that Forbes had been closed to through traffic. I felt like I was in the Reese Witherspoon movie Wild, trying to walk myself back to the woman I once was. My trip was met with some other hardships. The elevators in Wean Hall nearly took my arm off, and I was attacked in a very boa-constrictor-wrapping-around-me-and-squeezing-the-life-from-me sort of way as I passed the queue at La Prima. I ended up making it out alive, but I was a little shaken up.

As I neared my destination, off to my right in the distance I could see a large tower-like building shooting up into the clouds. I stopped, stared in awe, pointed excitedly, and asked someone if that was Scaife Hall. They managed to respond in the midst of a fit of laughter, “That’s the Cathedral of Learning.” I was a little bit disappointed, and asked myself if perhaps I should’ve gone there instead. But I regained my high spirits and continued on.

Eventually, as I descended down a rather large mountain, the entrance of Scaife Hall came into view. Finally! After days of walking, I had arrived.

I looked around, expecting to find a building similar to the rest I had seen on my walk here. After eventually realizing that Scaife Hall was the old looking one with a large chip-shaped structure protruding from its facade, I entered with caution. Maybe this was some

sort of old prison turned museum type of places? Maybe the reamins of some sort of medieval castle gone retro. I decided that the former was likely the case.

As I stood on the inside of the buildings and looked out, or rather attempting to look out, I wondered how odd it must be for anyone to stay inside this building for long periods of time. There were black bars, which ran both vertically and horizontally on every window, that produced an almost shrinking feeling within each rooms. I remember thinking, “Imagine trying to learn in here!” Another peculiar thing about this place was that each room contained almost 70 desks, despite my estimation that it probably comfortably seats around 20 people. There is also no real stairwell. Just the stairs that also double as the emergency exit. One could also opt for the elevator, just be careful. It shakes in somehow five different directions. I guess that’s part of the old jailhouse turned museum aesthetic. Scaife had this weird, edgy Tumblr vibe I would never be able to grasp.

I decided to risk it and took the rickety elevator down to the basement, but as the doors opened and I took my first step out, I was stopped by a large man in a long black coat. He told me I didn’t belong here, and I was instructed to head back upstairs. I later found out that the basement was where they kept all of the mechanical engineers that never get their mouse-trap car projects to work.

I ran back upstairs and out the back door of Scaife, which opened into what appear to be a construction site. Mildly confused and substantially worried, I quickly surveyed my surroundings for a way out. With a large Pringle-shaped monster to my right and a steep hill to my left, I panicked. I ran straight into the building in front of me, which I later found out was Hamerschlag Hall. I eventually found my bearings and made it home safe a few days later. Although visiting Scaife was the closest I’d ever gotten to finding a portal to hell, I did see some great things along the way. My favorite was the large glass ceiling in the Atrium. It was beautiful, and you can trust me on this one. I know a lot about glass ceilings.

THE TARTAN

Carnegie Mellon's student newspaper since 1906



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CMU hosts weekend summit on US and China Innovation

SINEAD FOLEY
Forum Editor

This past weekend Carnegie Mellon hosted the fifth annual CMU Summit on US-China Innovation and Entrepreneurship. Since 2012 the Summit has “attracted over 3,000 participants and 100 industry leaders” to campus to discuss the latest advances and challenges for people working in technical fields. The Summit is a massive event that works to bring students and industry leaders from all across the

U.S. and China together for a schedule packed with speeches, discussions, and networking events.

This year’s Summit was broken down into five major topics, each featuring a keynote speech in the morning followed by a panel discussion and question-and-answer session. The five pillars of the event were finance, high technology, energy and sustainability, innovation and entrepreneurship, and start-ups. Energy and sustainability, finance, and innovation and

entrepreneurship are regular topics for the conference, having been discussed in previous years. Meanwhile, the focus on high technology, specifically the power of artificial intelligence (AI), and start-ups were new, reflecting new trends in the ever-changing field of technology.

The weekend was opened and closed by five distinguished keynote speakers. Carnegie Mellon professors Terrence J. Collins and Tuomas Sandholm joined entrepreneurs Feng Li, Ning Yang, and Bo Tao in

shaping the discussions dozens of panelists and hundreds of attendees would have over the weekend.

The first topic, finance, sparked lively discussion about the future of financial technology, or “fintech.” De-regulation was the word of the hour, with panelists weighing in to a packed auditorium on how fintech can facilitate free global trade with minimal regulation. The question-and-answer session followed a similar theme. Panelists fielded questions about the effect of

the 2008 Great Recession on the fintech industry and how future regulation might change the landscape. The panelists pointed out that fintech had grown ever more important since 2008 as traditional banks were restricted by regulations but new, technology – based enterprises remained relatively deregulated and free. Tone Vays, panelist and head of research at BraveNewCoin, said that recent threats to regulate the industry, particularly from presidential candidate Bernie Sanders, “may be the best

thing that’s ever happened to the industry” because fintech is by nature impossible to regulate, and the more people try to accomplish this the clearer that will become to consumers. When asked to look into the future of fintech, panelist and Carnegie Mellon professor Timothy X. Brown summed it up best, saying the future will be a process of “evolution, not revolution.”

High technology was up next, with the program

See **SUMMIT**, B3

Presidential candidate Hillary Clinton visits CMU



Democratic presidential candidate Hillary Clinton was joined by Pittsburgh Mayor Bill Peduto at a rally held in Skibo gymnasium at Carnegie Mellon.

CALEB GLICKMAN
Staffwriter

On Wednesday March 6, Democratic presidential candidate Hillary Clinton

held a campaign rally in Skibo Gymnasium. The space was filled to full capacity, holding over 1,500 people in the gym with many others left outside in a line stretching well around the block. Clinton addressed the large crowd that was stuck outside before

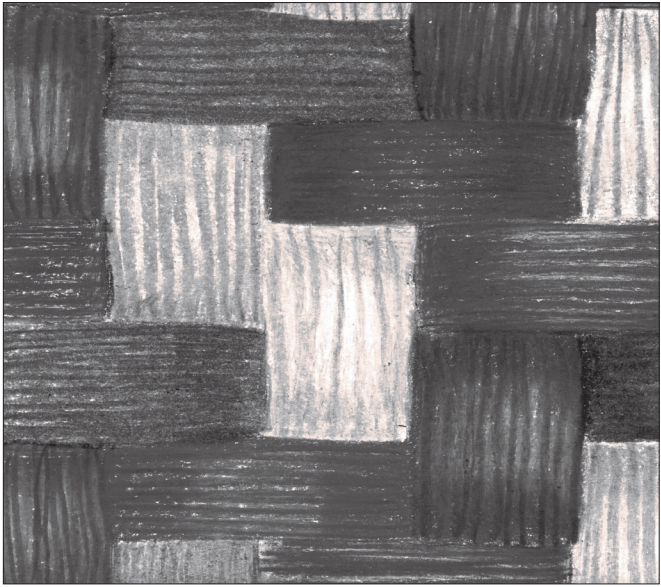
giving her speech. Meanwhile, inside Skibo, a selection of songs, including Kelly Clarkson’s “I’m a Survivor,” played in the background for the waiting crowd.

The event started with Julia Eddy, Chair of the Carnegie Mellon Graduate

Senate. Eddy spoke about Carnegie Mellon’s potential for excellence, which she highlighted by asking students to help find a cure for Alzheimer’s disease by 2025. She additionally spoke about the success of the democratic process based

See **RALLY**, B3

Carnegie Mellon joins national effort to bring functional fabrics and materials to the market



Ashley Wang/Staff Artist

DEBORAH CHU
Assistant News Editor

Carnegie Mellon has joined a new national research institute called the Advanced Functional Fabrics of America (AFFOA) that conducts research on new fibers, fabrics, and materials and integrates them into products ranging from active wear to protective armor. The institute aims

to “accelerate widespread commercialization of highly functional fabrics,” as stated on AFFOA’s website. The \$75 million national non-profit will serve as a resource for industry and government, connecting various companies with the expertise of academic researchers.

“Recent breakthroughs in fiber materials and manufacturing processes will

soon allow us to design and produce fabrics that see, hear, sense, communicate, store and convert energy, regulate temperature, monitor health, and change color — the dawn of a ‘fabric revolution,’” AFFOA says on its website.

Currently, the AFFOA group includes 31 academic institutions, including Carnegie Mellon, Cornell University, The Ohio State University, the University of Michigan, and the University of California, Davis. 16 companies are named as industry partners, including Nike, Microsoft, Goodyear, The North Face, Bose, and Medtronic. In addition, 26 start-up incubators and venture capital groups have pledged support, including Angel Capital Associations, Westbury Partners, and North Bridge Venture Partners.

AFFOA has been formally recognized, as announced by Secretary of Defense Ashton Carter at the Massachusetts Institute of Technology last week, as one of the White House’s National Networks for Manufacturing Innovation (NNMI) institutes. The NNMI

is a \$317 million public-private initiative aiming to boost the value of American-made products internationally through innovative research and development.

“The AFFOA initiative will provide unique opportunities for Carnegie Mellon to enable new materials, devices, systems, and applications. The integration of sensors and actuators in electronic textiles and smart fabrics can help widen the use of existing applications and open new applications in health, education, transportation, or Internet of things,” Diana Marculescu, professor of electrical and computer engineering at Carnegie Mellon, said in an interview with the University. Marculescu leads a group of faculty that develops electronic textiles with novel properties by embedding processing, sensing, and actuation.

Carnegie Mellon will be part of a research hub, led by Drexel University, that assembles partners in the mid-Atlantic region and links research institutions such as Penn State, Temple

University, and the University of Delaware to manufacturing and investment partners such as DuPont, Ben Franklin Technology Partners of Southeast Pennsylvania, the City of Philadelphia Office of Manufacturing and Industry, and the Pennsylvania Department of Community and Economic Development.

This research hub will lead investigations in modeling, designing, and predicting the utility of new fibers, yarns, and materials, and will apply those new materials to prototypes of functional fabrics for apparel, health care, transportation, consumer electronics, architecture, and the defense industry.

“I strongly believe that AFFOA offers an unparalleled opportunity for developing our workforce,” Marculescu said. “Indeed, new generations of scientists and engineers will be trained in integrating sensors, actuators, and photonics into wearable clothing fabrics. We are looking forward to being part of AFFOA and connecting with other academic and industrial members.”

See **FUNDS**, B3

Potential misuse of funds

TARTAN BOARD

Potential transgressions by the Student Body Vice President of Organizations (SBVPO), Trevor Hadick, have recently come to light. Among these possible transgressions are the improper use and allocation of funds, money that comes from our student activities fees. These transgressions may be in violation of Student Government Fiscal Policy (herein referred to as the Funding Bylaws).

Student Government financial data was volunteered by the Student Body Vice President for Finance (SBVPF). We have redacted pieces of these documents for privacy concerns, and they can be found at <http://pdfsr.com/profile/cmuthetartan/>.

The first instance of Hadick misusing his allocation was when he used SBVPO money to buy jackets and polo shirts for the Committee on Student Organizations [CoSO]. The cost also includes embroidery of said clothing. The jackets were given to the CoSO directors, including Hadick. This appears to be in violation of the Joint Funding Committee (JFC) Bylaws, which applies to Student Government funds via Article V Section A of the Student Government Constitution. The bylaws state in Article 5, Section D, Item 1, on lines 240–41, that JFC funds cannot be used for “personal equipment, which is defined as equipment or clothing that will not be available for use by future members of an organization.”

The total cost of these items was slightly under \$900.

The clothing itself does not become a violation until fiscal close. When asked to comment, Hadick claimed he was pursuing avenues to cover expenses, including having members pay for the clothing and raising revenue through fundraising, but no tangible action has been taken at this time to remedy the situation. The dates of the transactions span from Jan. 8 to 19.

There were also some potentially problematic activities with allocations of SBVPO funds, specifically the Collaborative Fund that is available for organizations to apply for via the Common Funding Application on The Bridge.

FEATURE PHOTO

Allies’ open mic night breaks silence



Aisha Han/Staff Photographer

This Thursday, CMU Allies hosted an open mic night titled “Breaking the Silence” in McConomy auditorium to recognize all people that have ever been bullied and harrassed because of their sexual orientation or gender identity. Performances included spoken word, poetry, songs, and skits.

Campus Crime & Incident Reports

Disorderly Conduct/ Alcohol Offense

April 2, 2016

A Carnegie Mellon staff member reported to University Police that she found several items of drug paraphernalia and empty bottles of alcohol in an office in Hamburg Hall. An investigation determined that two CMU students were responsible. Each was issued citations for disorderly conduct and violations of the Carnegie Mellon Alcohol Policy.

Burglary

April 4, 2016

A Carnegie Mellon faculty member reported to University Police that \$300 was unlawfully removed from the Conflict Kitchen restaurant. An investigation is ongoing.

Motor Vehicle Accident

April 4, 2016

A non-affiliate of Carnegie Mellon reported to University Police that her vehicle was

struck by a Carnegie Mellon Escort bus.

Alcohol Amnesty

April 8, 2016

University Police responded to Morewood Gardens and the Delta Delta Delta house after receiving reports of two intoxicated students. The two students were provided with medical attention. All criteria of Alcohol Amnesty were met and no citations were issued.

Theft of Jacket

April 8, 2016

A Carnegie Mellon student reported to University Police that her jacket was unlawfully removed from the Cohon Center. An investigation is ongoing.

Compiled by
VALENE MEZMIN

CAMPUS NEWS IN BRIEF

Carnegie Mellon team places second in 76th annual Putnam Math Competition

The 76th annual William Lowell Putnam Competition, a mathematics competition for undergraduate students, took place in December of last year. It was recently announced that the team from Carnegie Mellon University landed second place in this prestigious competition. This marks the fifth consecutive year that a team from Carnegie Mellon has landed among the top five teams in this competition, thus making Carnegie Mellon home to many of the nation’s best math experts.

The competition took place on Dec. 5, 2015, with 4,275 undergraduate students from 554 institutions in America and Canada participating in the event. Students utilized their creative thinking and concepts knowledge taught in college mathematical courses to solve 12 complex mathematical problems in the course of six hours. Representing Carnegie

Mellon University was senior science and humanities scholar Linus Hamilton, junior mathematical sciences major Thomas Swayze, and sophomore mathematical sciences major Joshua Brakensiek.

“Teaching our students problem-solving skills that will help them to succeed in all of their future endeavors is at the heart of our math curriculum,” said Po-Shen Loh, an associate professor of mathematical sciences at Carnegie Mellon and the team’s coach. “Our sustained success in the Putnam shows that some of the best math students are gathering here at Carnegie Mellon and thriving.”

The efforts of these students has allowed Carnegie Mellon’s Department of Mathematical Sciences in the Mellon College of Science to receive \$20,000, with each of the three team members receiving an \$800 cash prize.

Carnegie Mellon School of Drama faculty members win awards for costume design

Carnegie Mellon School of Drama faculty members Susan Tsu, Bessie F. Anathan Professor of Costume Design, and Suttirat Larlarb, associate professor of costume design, have won the Theatre Development Fund Irene Sharaff Award. The award is regarded as being a high honor for American costume designers.

Tsu, an active costume designer for 40 years, has been awarded the Lifetime Achievement Award and Larlarb has been awarded the Young Master Award.

Tsu’s designs have been included in hits such as “Godspell” and “The Joy Luck Club.”

“Of course it’s a great honor,” Tsu said in a statement to the University. “When I think about the number of incredibly talented designers in this country and some of the people I’m following and the number of designers I’ve been influenced and

inspired by, I feel even more honored to be recognized in this way.”

Larlarb’s work has been included in the opening ceremony of the 2012 London Olympics, in the recent biopic *Steve Jobs*, and in the Broadway musical “Finding Neverland.”

In a statement to the University Larlarb states “When I came back from the Olympics, after doing something that massive and that impactful on the world, it almost seemed greedy to just keep building my career without giving something back ... Part of me was coming to teaching because I wanted to try to instill the things I’d seen and learned and observed and challenge students to be better.”

The awards ceremony will take place on May 20 in New York City.

Compiled by
VALENE MEZMIN

WEATHER

TUESDAY 51° / 29°	WEDNESDAY 56° / 33°	THURSDAY 62° / 35°
FRIDAY 66° / 40°	SATURDAY 67° / 43°	SUNDAY 71° / 45°

Source: www.weather.com

Corrections & Clarifications

The article titled Letter to the Editor: CoSO, published March 21, 2016 was solicited and subject to prior review by members of the Committee on Student Organizations [CoSO] without disclosure of relation to the event in violation of our conflict of interest policies. The Tartan must then retract this letter. We apologize to our readers.

INTERNATIONAL NEWS IN BRIEF

Al Qaeda militants execute 17 Yemen government soldiers

ADEN — On Saturday, 17 government soldiers loyal to President Abd-Rabbu Mansour Hadi were captured and executed by militants while traveling from their homes near the southern port of Aden to the al-Mahra province in eastern Yemen to withdraw their salaries. The militants are likely affiliated with Al Qaeda in the Arabian Peninsula (AQAP), which has been gaining power in Yemen due to the civil war. Source: Reuters

Former Argentine president charged with embezzlement

BUENOS AIRES — Cristina Fernandez, who stepped down as president of Argentina last December, has been charged by a prosecutor with money laundering and embezzling funds earmarked for public works. Businessman Leonardo Farina implicated Fernandez and her late husband and former Argentine President Nestor Kirchner in a plea bargain that took place on Friday. Fernandez served eight years as president. Source: Reuters

Two Irish parties attempt to form a minority government

DUBLIN — The Fianna Fail party and the Fine Gael party, which received the largest share of the vote in February’s election at 25.5 percent and 24.3 percent respectively, agreed to meet this week after talks of a coalition failed. They will attempt to form a minority government, in which one party abstains in key parliamentary votes to allow the other party to govern. Failing that, the country will be plunged back into a second general election. Source: Reuters, Irish Times

Suspected terrorist attack in Peru before election kills three

LIMA — Two military personnel and one civilian driver who were transporting materials were killed in an attack on Saturday, the eve of the Peruvian presidential election. The suspected perpetrators are the leftist rebel group Shining Path. In response to this attack, outgoing president of Peru and former army officer Ollanta Humala stated “Terrorists are no longer a threat to the Peruvian state but they have shown they can still cause harm.” Source: Reuters

Cuba runs low on beer supply during recent tourist spike

HAVANA — Cuba has gained many things from negotiations with the U.S. in recent months. Thanks to the easing of traveling restrictions by U.S. President Obama they’ve lost a lot of beer. A sales executive for one of Cuba’s favorite beer brands, Bucanero, said the brewery needs a new plant to keep pace with demand from tourists and a burgeoning private restaurant sector that competes with state-run outlets for supplies. Source: Reuters

Explosions hit Afghan capital after John Kerry visit

KABUL — A period of relative peace in Kabul abruptly ended on Saturday when at least two explosions hit the diplomatic zone of the capital. The explosions occurred a troublingly short time after after visiting U.S. Secretary of State John Kerry left meetings with Afghan officials, including President Ashraf Ghani. Source: Reuters

Compiled by
VALENE MEZMIN

Hillary Clinton organizes rally in Skibo



School of Drama student Avery Smith (left) sang the national anthem and Soundbytes (right) serenaded the audience prior to Clinton's entrance.



Brandon Hong/Photo Editor

RALLY, from B1

citizens] from achieving their God-given potential.”

She organized a large portion of her speech around three tests a president should be ready to face, tests that she claimed prove her to be a progressive who has and will continue to make progress. These tests were “Who have you helped?”, “Have you kept us safe?”, and “Can you unify us?”

For her first test, she discussed her plans to help the working class, including creating a national infrastructure bank to fix our infrastructure. Additionally, she called for \$10 billion to invest in research for new technologies to begin exporting from the United States. She took the opportunity to share how the Carnegie Mellon Robotics team is a leading example of how America can bring its manufacturing industry into the new century.

Clinton went on to discuss her plans to combat climate change, such as bringing half a billion more solar panels into the United States by 2020, and by overseeing a North American climate agreement. “I actually listen to the scientists,” she said, adding that Carnegie Mellon could help teach Republican climate change deniers. Discussing her experience as a fighter for climate agreements in the past, she relayed an anecdote about her and President Obama’s mission to “stalk the Chinese and the Indians” at the 2009 Climate Conference in Copenhagen. According to Clinton, she and Obama successfully snuck past bodyguards and joined the “secret” meeting of the

Chinese and Indian officials who had been avoiding them. Clinton also hailed the results of the most recent Paris Climate Conference in 2015. Although some have criticized the conference as not taking enough action, Clinton said “don’t let the perfect be the enemy of the good.”

Clinton then spoke about her economic platform, proclaiming her support for a livable minimum wage, equal pay for women, and small businesses of the type that often begin at Carnegie Mellon. “The economy does better with a Democrat in office,” she said, calling back to the federal government’s balanced budget and surplus under her husband Bill Clinton’s presidency as well as President Obama’s accomplishments while in office. “[Obama] doesn’t get the credit he deserves,” she said, to widespread applause, while Republicans continue “peddling the same economic snake oil.”

Although Clinton did not specify her position on how much the minimum wage should be raised, The Tartan asked Mayor Bill Peduto after the rally to address the possibility of a higher minimum wage in Pittsburgh and nationwide. According to Peduto, Pittsburgh is “on the path” to phasing in a \$15 minimum wage over several years until 2019, with UPMC recently joining a two-year discussion. He has focused his efforts to raise the minimum wage on the local middle class and service workers. “Pittsburgh built the middle class,” said Peduto, and the city can “look at the same model again” as “part of a new economy.” Peduto expressed his support

for a national minimum wage of \$15 if it can be comfortably phased in over several years.

Clinton pledged to fight against the privatization of social security, to fix the Veteran’s Administration, and expand the Affordable Care Act. She also said she would “end *Citizens United*” and its attempt to make “more money equal more speech” in the federal government.

She promised to work toward universal pre-kindergarten and debt-free college education through refinancing and complete debt forgiveness after 20 years. We must “end the government making money off lending money,” she said.

She asserted her commitment to the pro-choice movement, marriage equality, equal voting rights, “common sense” gun regulations, and immigration reform with a “path to citizenship.”

To answer her second qualification of security, she called on her experience as Secretary of State. Clinton said that as president she would ensure that national security was “not an afterthought.” She mentioned her role in the military operation that killed terrorist leader Osama Bin Laden, as well as her successful nuclear arms negotiations with Russia that lessened the “biggest immediate threat” to national security.

Clinton expressed her discontent with her Republican contenders, saying that she was running an “issue-oriented” rather than an “insult-oriented” campaign.

With a Republican in the presidential office, she said, “we will not recognize our country.” Trump in particular she called “deeply disturbing”

in his attempts to “incite prejudice and paranoia.”

Finally, she portrayed herself as a uniter of the party. She contrasted herself with obstructionist Republicans in the commitment she has demonstrated in her career to “go anywhere to meet common ground.” For her entire adult life, Clinton said, she has stayed “in the trenches” and has done the “boring but necessary kind of work.” Thanking the crowd once again and urging them to vote, Clinton exited the stage to the sound of “Fight Song” by Rachel Platten.

At a booth across the street from the rally, several supporters of fellow Democratic presidential candidate Bernie Sanders were less enthusiastic about Clinton. One young man said that there are “lots of people who are undecided” in the primary race, and they “don’t know they have a better option.” While attendees for the Clinton rally waited in line, the Sanders supporters campaigned for their own candidate and solicited volunteers for his campaign. They described their efforts as “really successful,” claiming that they answered people’s “legitimate concerns” about their candidate and that many attendees “turned to Bernie on the spot.”

Attendees of the rally called it “surreal” and “wonderful,” and described Clinton as a “down to earth” woman who has “made a real difference in people’s lives.”

One college student said that it was his first rally and he was “happy to get in” for an event that “really did touch [him].”

The Pennsylvania primary is on April 26.

Summit addresses technical fields

SUMMIT, from B1

promising “insights on the cutting-edge issues in Artificial Intelligence.” The panel wrestled with the fundamental questions of the AI industry such as what AI is, what problems it should try to solve, and how it will change our lives. Some panelists advocated for AI that melds with the arts, envisioning technology that facilitates creation and eliminates mental drudgery so people have more time to spend on creativity and entertainment. Others saw AI technology in a more scientific context as a tool to personalize healthcare, remove inefficiencies, and produce and analyze theories the human mind cannot grasp.

The final panel on Saturday focused on energy and sustainability. This panel was the most technical, specific, and down to earth of the three, addressing the opportunities and challenges the industry faces from government policy, changes in prices of oil and natural gas, and consumer interests. One panelist summed up the mood of the discussion, saying, “we’re moving the needle, but not fast enough.” The governments in both the U.S. and particularly China are pushing for clean energy by providing incentives to the private sector to invest, but these steps are tempered by economic concerns. Consumers are beginning to invest in sustainable products, but many remain apathetic about the issue. Finally, technological developments like smart meters, meters that provide

information on how much energy a particular household or area is using, have helped create an energy supply system more conducive to clean power, but there is still a lot more progress needed on issues like energy storage.

The Sunday panels provided platforms for industry leaders to discuss and give advice on how to navigate technological fields. The start-up panel brought entrepreneurs from a variety of start-ups together to give advice on getting ideas off the ground and turning a concept into a company. According to the program, the innovation and entrepreneurship panel is “dedicated to creating a platform for prestigious investors and entrepreneurs from both China and the U.S. to network, share experiences, and exchange ideas” and to “promote a bilateral dialogue and cooperation between the two countries.” This year the panel spotlighted the robotics industry.

The Summit also invited attendees to take an active role. There were networking sessions after every panel discussion, and the New Venture Competition asked teams of student entrepreneurs to create start-up solutions to real world problems. The competition was judged based on real world feasibility and likelihood of economic success and offered a \$15,000 cash prize to the winning team.

The entire event offered invaluable opportunities to technology-focused students in terms of information, experience, and connections.



Brandon Hong/Photo Editor

Pictured above are Tuomas Sandholm (left), Terrence J. Collins (right), and Bo Tao (bottom), who gave the keynote addresses on Saturday.

Investigation by The Tartan reveals potential misuse of funds by current SBVPO

FUNDS, from B1

After an email requesting information on funding, Hadick sent another Student Government official documentation of the expenses of the Collaborative Fund. In this email, Hadick reported that he had allocated \$1,000 to Women’s Club Soccer to offset the costs of a spring recreational league.

There is no evidence available to us to suggest that Women’s Club Soccer received any allocation from the Collaborative Fund. This allocation does not appear on the Women’s Club Soccer Team’s transactions, nor does Women’s Club Soccer appear in the list of Collaborative Fund applicants. We have been unable to reach representatives of Women’s Club Soccer for comment.

There is, however, evidence of an allocation of \$1,000 from the SBVPO account to the AC Mellon Men’s Soccer Team that was stated to be for spring recreational league fees.

The journal entry transfer request shows the reason for the transfer as “Special

Allocation: The mens [sic] and womens [sic] team will be try [sic] to organize rec [sic] events in the spring. This is their new initiative.” It is unclear what is meant by “organize” in this context.

In addition to SBVPO, Hadick serves as the co-president and authorized signer of AC Mellon Men’s Soccer.

Evidence of the allocation appears on both the SBVPO and AC Mellon Men’s Soccer accounts, and both transactions were processed on Feb. 9, 2016. Again, there was no application to support this allocation.

When asked for comment, Hadick encouraged us to review the list of applications. We did find two applications under AC Mellon Men’s Soccer for the Common Fund, but they do not correspond to the \$1,000 from Feb. 9. One application is an extension of the other, and they jointly requested funding from Senate and GSA to cover expenses related to a tournament from October. These applications were individually created and submitted within the bylaws of

Student Government and are not potential transgressions on their own.

Our investigation is ongoing.

Update (April 6, 2016): An official from Women’s Club Soccer claims not to have received any funds from this allocation, nor to be enrolled in a spring recreational league.

Update (April 10, 2016): Multiple officials from Women’s Club Soccer claimed to have no knowledge of the transfer request they are listed on.

Further, The Tartan has acquired applicants to the Common Funding Application. We filtered it for requests to the SBVPO for Collaborative Fund money. The only discrepancy between this document and the one uploaded by Hadick in a response to this article is the presence of “Club Soccer” in Hadick’s document. Hadick did not respond to a request for comment. The document can be found on the online version of the article. Personally identifiable information has been redacted for privacy concerns.

30

30

SOUTH WATER

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With NY primary approaching, Democrats get in the mud

SARAH GUTEKUNST
Publisher

Ahead of the New York primary on April 19, Senator Bernie Sanders (I-VT) and Former Secretary of State Hillary Clinton have gotten themselves tied up in a media back-and-forth.

This week’s victory in Wisconsin looked like a turning point for the Sanders campaign. Even though Clinton still leads the race by 219 delegates, Sanders’ performances since March 22 have claimed him 181 delegates to Clinton’s 102. Now the 247 delegates to be doled out in New York mean more than before. The pressure is on Sanders to keep up his momentum, and even

more so for Clinton to maintain her once-powerful lead.

However, the news has not been all good for the senator. Sanders’ credibility was damaged early this week when his answers in an interview with *The New York Daily News* left voters feeling unsettled. His answers about breaking up big banks and foreign policy had many people openly questioning his policy knowledge.

Clinton also began to float attacks on Senator Sanders.

On Wednesday morning, following her defeat in Wisconsin, Clinton made waves on her press rounds when Joe Scarborough of *MSNBC*’s “Morning Joe” directly asked Clinton four times if she finds Sanders qualified for the

presidency. She never answered him with a yes or no, but conceded that she felt he “hadn’t done his homework.” In a write-up of the interview, *The Washington Post* lent it the headline “Clinton questions whether Sanders is qualified to be president”.

Also on Wednesday, Politico’s podcast “Off Message” published an interview with Clinton from Friday, April 1, where she jabbed, “[Sanders is] a relatively new Democrat, and, in fact, I’m not even sure he is one.”

Finally, *CNN* posted a report on Clinton’s New York strategy that they boiled down to three points: “Disqualify him, defeat him, and unify the party later.”

Sanders ended the day in Philadelphia ramping up his offense in response to the perceived attacks from the Clinton camp. At a rally hosted by Temple University, Sanders suggested that “The American people may want to wonder about [her] qualifications when [she’s] spending an enormous amount of time raising money for [her] super PAC from some of the wealthiest people in this country and from the most outrageous special interests.” He also called into question her stance on the Iraq War and her voting record on “disastrous” trade agreements that resulted in American jobs being outsourced.

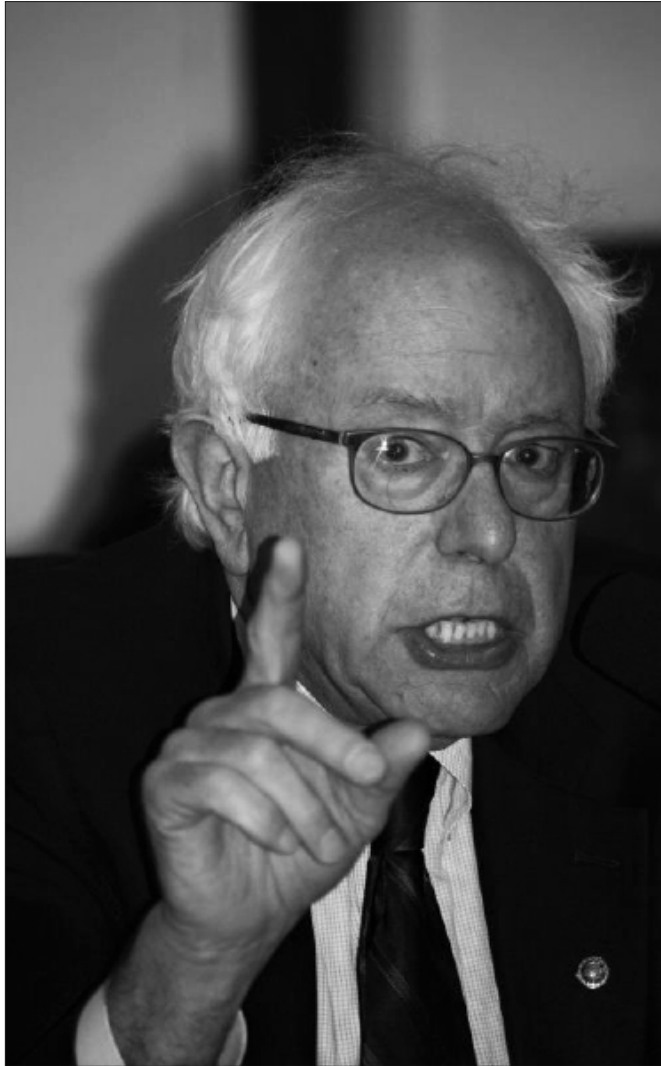
Within minutes of Sanders’ remark hitting the press,

Clinton took the high road on *ABC News*, saying, “Let’s keep our eye on what’s really at stake in this election. We have Republicans whose values are so antithetical to what’s right for New York or right for America, and I’m just going to keep doing what I’ve been doing.” Clinton supporters also noted that she herself never questioned Sanders’ qualifications.

Since then, some observers have found Sanders remarks about Clinton’s qualifications to be sexist. Sanders has backtracked into a more complicated stance, claiming that she’s both qualified and unqualified. In an appearance on *The View* on Friday, Sanders repeated his disapproval of

Clinton’s support of big banks, the Iraq War, and NAFTA, but acknowledged her experience, specifically her success as First Lady. Sanders added that, regardless of how the primaries go, he’d still rather see a Democrat win the general than “a Donald Trump or some other right-wing Republican.”

Clinton and Sanders can agree on a common enemy for now, but on Friday, April 14 at 9 p.m., they’ll return to their home turf in Brooklyn to face off in the next debate hosted by *CNN* and *NY1*. Clinton still leads in polls, but with the rocky climate and Sanders’ continuing gains, the New York primaries — and the Democratic Primary — are far from being called.



Left: Theodore Teichman/Assistant Photo Editor **Right:** Courtesy of Terry J. Allen via Flickr Creative commons

Left: Hillary Clinton ratchets up the intensity during her April 6 appearance at Skibo Gymnasium. **Right:** Bernie Sanders wags his finger at a rally. The pair have been exchanging attacks on each other’s positions and credibility.

GOP voters attempt to bar Trump from party nomination

ZEKE ROSENBERG
Senior Staff

With the Republican primary winnowed down to only three remaining candidates, the highly-touted “party forces” that many claimed would stop the Donald Trump candidacy in its tracks are finally beginning to come into play. Recent results in two states, Utah and Wisconsin, show the election day vote coalescing around the most viable non-Trump candidate. This tactical voting could have the Grand Old Party hurtling towards a contested convention to decide their nominee.

Utah was the first indication that tactical voting had begun to take hold in the Republican party. FiveThirtyEight’s polls-only projections pegged Senator Ted Cruz (R-TX) to get 55.1 percent of the vote, with Ohio Governor John Kasich grabbing 29.3 percent and Trump bringing up the rear with 13.8 percent.

The actual result looked very similar for Trump, who finished with 14 percent of the vote. However, Kasich’s numbers tanked and he finished with 16.8 percent of the vote while Cruz dominated with 69.2 percent of the vote.

The narrative following the caucus was that Mormons were the tip of the anti-Trump spear. However, Trump lost across all demographic lines, not just with Mormons.

The lack of a secret ballot at a caucus makes it very easy for voters to just align with the most viable anti-Trump candidate, but it happened again in the primary in Wisconsin, providing further evidence of a shift towards either

the party coalescing around Cruz or, more likely, the party attempting to deny Trump the nomination. FiveThirtyEight’s polls-only projection showed a tight race in this primary, with Cruz collecting 40.3 percent of the vote to Trump’s 36.3 percent. Trump again finished quite close to his projection at 35.1 percent while Cruz rocketed all the way to 48.2 percent, while Kasich lagged behind again.

Exit polls showed about half of Republicans indicating that they would be optimistic or excited about a Kasich presidency, indicating that his support had not waned. His votes seemed to migrate to Cruz in order to stop Trump.

In a three candidate race it’s likely that Trump will need to start reaching the high 40s and low 50s in order to win states as more voters tactically migrate to whichever non-Trump is leading the polls.

Another possibility is that the anti-Trump vote has truly shifted towards Cruz, as opposed to Cruz gaining votes over Kasich simply because he is more competitive with Trump. This hypothesis will be tested as the race moves to the Northeast where Kasich is far more competitive with Trump than Cruz.

An early indication of trouble for the Trump campaign was his failure to top 50 percent in any state. He still has not done so and, while his home state of New York seems to be a spot where that might happen, that trend would leave an opening for tactical voting to deny Trump state wins. Unlike the Democrats, who allocate delegates entirely proportionally, Republicans often give half or

more delegates to the winner in so-called “winner take all” states. If voters continue to barricade these delegates from Trump, it could spell doom for Trump’s avoidance of a convention.

A brokered convention does not guarantee that Trump will fail to win the nomination. He could convince unbound delegates to vote for him and push him past the 1,237 delegate threshold on the first or later ballots. However, Trump’s delegate operation has been incredibly slow to start and his historically high unfavorable numbers with the general electorate will make him a very unattractive candidate to unbound delegates who tend to be party leaders or local officials who would want to win the presidency. Further, Trump’s tendency to do things such as incite violence at his rallies could make Republicans fear for something as basic as the legitimacy of the vote if dissenters (or non dissenters who do not fit into Trump’s conception of American) are threatened with physical violence.

Cruz was a pariah in the Republican party as recently as a month ago. Elected Republicans have begun to endorse him en masse, including Senator Lindsey Graham (R-SC) who once said that killing Cruz on the Senate floor would not result in a conviction from the Senate. It’s clear from the reaction to the field winnowing down to just three candidates that a large portion of the Republican is very opposed to Trump, and it seems like “not Trump” has become a viable candidate in itself.



Courtesy of Gage Skidmore via Flickr Commons

Donald Trump points his finger as he has recently, rightfully accusing Republicans of conspiring against him.

Sanders extends winning streak with victory in Wisconsin

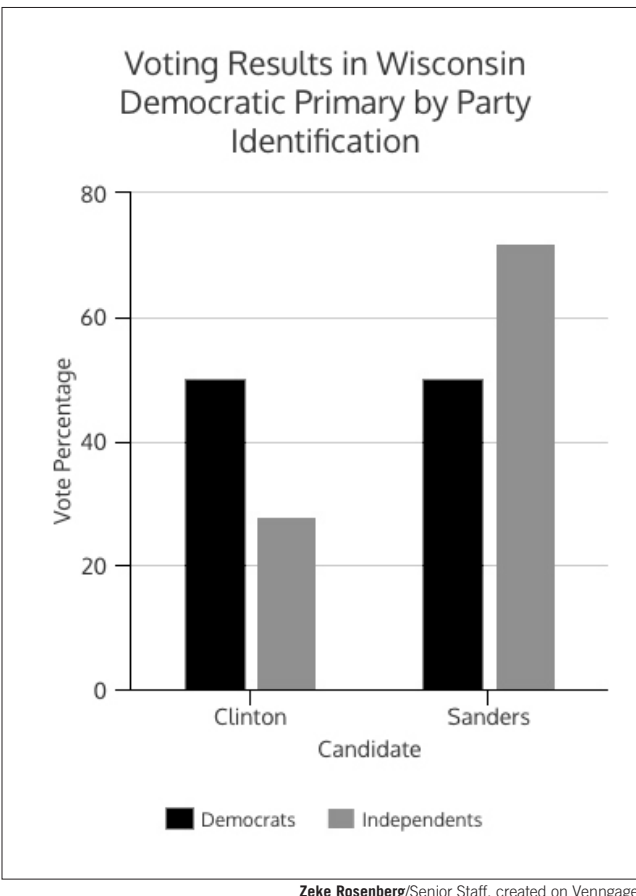
THATCHER MONTGOMERY
Contributing Editor

Last Tuesday, Senator Bernie Sanders (I-VT) won the Democratic primary in Wisconsin, with 56.6 percent of the vote to Hillary Clinton's 43.1 percent. Wisconsin follows a string of Sanders victories, but will this hot streak be enough to power through to the presidential nomination? From the beginning of the race, Sanders has challenged Clinton in an uphill battle for the Democrat nomination. In the recent primaries, however, things have begun to look brighter for the Vermont senator, with victories in the past six states: Idaho, Utah, Alaska, Hawaii, Washington, and now Wisconsin. However, as a group, these states are relatively small, are relatively white, and had open primaries. This means independent voters and not just registered Democrats could vote. In addition, five of the

six were low-turnout primaries. These characteristics put a damper on the momentum that the wins represent. Because the states were smaller, Sanders is still behind in delegates. Sanders has generally won states with higher proportions of whites and lost states with more people of color, a pattern that held in this last stretch (Hawaii being an exception, not the rule). The independent voters who attend Democratic primaries have overwhelmingly supported Sanders over Clinton. In Wisconsin, the trends continued as Clinton and Sanders were backed by their usual demographics. According to CNN exit polls, voters who were young, white, or independent heavily favored Sanders, whereas Clinton won in voters over 45 years old and people of color. In a good showing by Sanders, however, women and registered Democrats both split evenly between the

candidates. Past allegations that Sanders is only supported by "Bernie Bros" don't hold up, although a higher percentage of men did support Sanders. The even split among registered Democrats also shows that Sanders is making ground among the party faithful, which had also tended to be more supportive of Clinton in the past. Despite losing Wisconsin, and several states before it, Clinton still is in a position of power with her lead over Sanders. She congratulated the senator on his win, while looking forward to the remaining states which are more likely to support her. In Wyoming, Sanders won with 55.7 percent of the vote to Clinton's 44.3 percent, with both candidates receiving seven delegates. The next primary takes place in New York on April 19. As Sanders' birthplace and Clinton's adopted home, the state will be a hard-fought battle.

Its 291 delegates make it immensely important for both candidates, and its diverse demographic makeup challenges the Sanders' campaign to gain more support among non-white voters. Another hurdle to Sanders is New York's status as a closed primary, meaning only registered Democrats will be able to vote. Sanders will have to rely on registered Democrats only to see him through. While the Wisconsin primary was a victory for Sanders, he still has a way to go to before catching up with Clinton. The race is still open for either candidate to take, and Sanders' recent wins help his campaign but aren't necessarily a sign of upcoming dominance. Similarly, while the run of losses for Clinton is a setback, she is still holding on to her lead. The Democratic primaries will likely go all the way to the end, as both candidates hope for better results in the future.



Ted Cruz romps to blowout victory in Wisconsin Primary

IAN TANAYA
Assistant Sports Editor

With the primary season drawing to a close, establishment Republicans are pulling out all the stops to prevent Donald Trump from claiming the Republican nomination. Senator Ted Cruz (R-TX) and Ohio Governor John Kasich continue to campaign in the hopes of forcing a brokered convention: their only hope of capturing the nomination. On Tuesday, Wisconsin Republicans turned out in what was seen as the point of no return if Trump managed to win the day. Instead, Cruz's 13.1 percentage point margin of victory transformed the narrative into the latest obstacle to

Trump taking command of the Republican Party. Cruz considered the night "a turning point ... [and] a rallying cry" for the hardworking people in America. Cruz earned 36 delegates to reach 517 total delegates. The six delegates Trump obtained increases his total to 743. Trump would need to secure 60 percent of the remaining delegates to win the nomination outright, and Cruz would need 87 percent of them to achieve the same feat. With such high figures needed for victory, the chances of a contested convention continue to increase, no doubt a terrible prospect for the eventual Republican nominee. A number of forces contributed to Cruz's victory.

Cruz received the endorsement of Wisconsin Governor Scott Walker, popular among conservatives for limiting the collective bargaining power of public employees. Though Walker's own presidential aspirations ended before the first votes were cast, he has opposed Trump's rise to prominence in Republican politics. A number of conservative radio hosts also sided with Cruz in retaliation against Trump. When Trump called into Charlie Sykes' show, Sykes criticized him harshly for recent actions. Other radio hosts also urged listeners to turn away from Trump. The anti-Trump actions in Wisconsin seem to have worked. More than a third

of Republicans in exit polling said they were scared of a Trump presidency, and another fifth voiced concern. Cruz, however, is by no means a great fit for all Republican voters. About a quarter of GOP voters indicated they would either vote for former secretary of state Hillary Clinton or a third party candidate if either Trump or Cruz get top billing on the Republican ticket. Trump was incensed by Cruz's victory. In a statement released on Tuesday night, the Trump campaign called Cruz "worse than a puppet — he is a Trojan horse, being used by the party bosses attempting to steal the nomination from Mr. Trump." Trump alleged that Cruz was coordinating with

his super PACs, continuing allegations on Cruz's integrity which have not stopped since the campaign's tactics to siphon votes from supporters of retired neurosurgeon Ben Carson in the Iowa caucus. In response, Jason Miller, a senior adviser to the Cruz campaign, stated that "Trump has a real problem when he gets his tail kicked." Miller did not mention the allegation of coordinating with super PACs. Trump will likely rebound in New York's April 19 contest, where 95 delegates are up for grabs. The current Real Clear Politics average has him at over 50 percent of the vote. It's April 26 that could decisively determine whether the Republicans will duke it

out into the summer. Connecticut, Delaware, Maryland, Pennsylvania, and Rhode Island all vote on that day. The Real Clear Politics average in Pennsylvania has Trump with a 13.4 percentage point edge over Cruz and a 14.4 percentage point lead over Kasich. In Maryland, Trump has a 13 point lead over Cruz and a 14 point lead over Kasich. With sparse polling in the other states indicating support for Trump, it could be the knockout blow Trump needs to secure the nomination. On the other hand, the states could turn against the frontrunner and further prolong the race, potentially denying any candidate the chance to secure the nomination.

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Forum

Fence speech ought not be silenced by mob mentalities

KABIR MANTHA
Staffwriter

For those of you night owls on campus, on the morning of Monday, April 4, the fraction of campus that goes to their 8:30 a.m. classes woke up to find the touching memorial for our recently deceased fellow students replaced by the slogan “Make America Great Again.”

By 1:30 p.m. that same afternoon, things got even more confusing when all that was left of the message was the red background and splotches of white paint just managing to make the original message indecipherable. It was at this time that the Facebook group Overheard at Carnegie Mellon exploded with before and after pictures of The Fence and escalating debate over the legality and morality of what happened.

First, to address the accusations of vandalism against whoever painted The Fence in broad daylight, the only regulation I was able to find related to painting The Fence prohibits the use of spraypaint, air-brushes, paint rollers and similar tools. Using these to paint The Fence is an act of graffiti. All the other stipulations however, such as only being able to paint between midnight and 6 a.m. and having to completely cover the previous message, seem to just be traditions. So far, there doesn't seem to be a problem.

Now however, we get to the more charged part of the debate. Was painting The Fence in support of Donald Trump inappropriate? Was this worth breaking our traditions for? As usual, there were heated arguments on both sides, some rational, some less so. What the situation

ultimately boils down to is your right to voice your political opinion. The fence didn't have any hate speech on it. There was no sexist, racist, homophobic, or otherwise inappropriate content on The Fence.

There was only a political slogan, of the front runner for the 2016 Republican Presidential Nomination might I add. Whether you like the policies he advocates, or you personally get offended by what he stands for, that's a value judgement that you're making. What gets me is the blatant hypocrisy of the situation: less than two days after the student body erupts on Overheard, we welcome Hillary Clinton, another Presidential candidate, to our campus with great pomp and celebration.

The problem with breaking our traditions for this scenario is the message it sends. It shows that we, as a

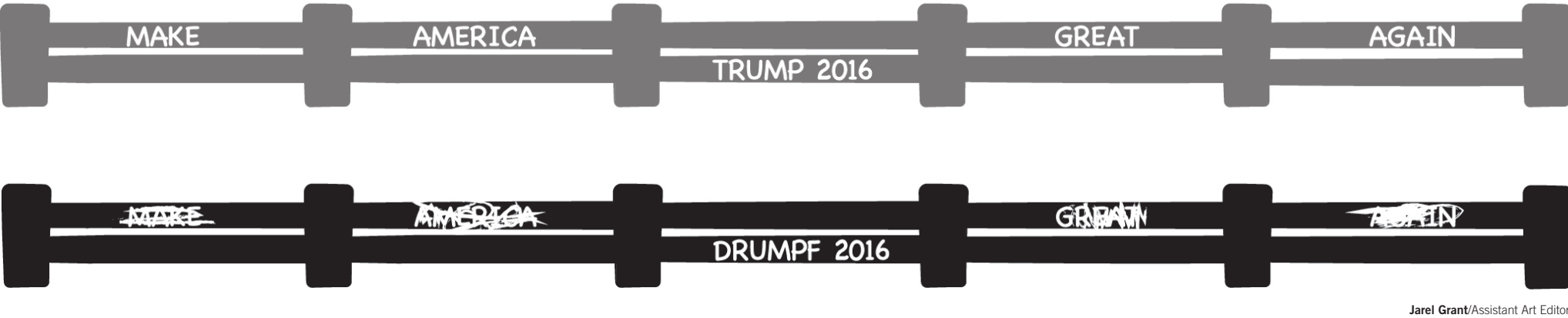
campus, will do whatever it takes to silence the voices of those who oppose what we decide as the acceptable opinion.

As a university that prides itself in its diversity, I would hope that we're capable of seeing and accepting, though not necessarily agreeing with, differing perspectives. There is a frightening trend on college campuses around the country these days that is pruning the students' right to free speech almost to the point of nonexistence. The Spotlight on Speech Codes 2016 survey found that 49.3 percent of the 440 institutions of higher education surveyed have “at least one policy both clearly and substantially restricting freedom of speech, or that bars public access to its speech-related policies,” while Carnegie Mellon is one of the mere 22 universities found to not have any

policies threatening campus expression. I for one, would like to keep it that way. Personally, the idea of dissident opinions being eradicated makes me feel a lot more unsafe than Donald Trump's slogan, especially since my right to have a dissident opinion is what allows me to vote against him in the first place.

Something that was much more troubling, though not as talked about, was how the Trump propaganda covered up the memorial to our recently deceased fellow students. Painting over The Fence after a mere two days with any message whatsoever is quite a callous gesture. However, The Fence is meant to be painted over, and callousness should not be mistaken for bigotry.

And finally, I'd like to remind everyone that this entire uproar was about a fence with a lot of paint on it.



Jarel Grant/Assistant Art Editor

FROM THE EDITORIAL BOARD

CMU students must open conversation with Student Government regarding accountability

The Tartan has dedicated significant space to the political process this year, for both national elections and the student body ones occurring here at Carnegie Mellon. However, while we often talk about the effect of policy, we rarely talk about what the responsibilities of an elected official are and how they affect the campus community.

Elected student officials have two obligations: to follow Student Government's rules and to advocate for the student body that elected them.

The first obligation to the bylaws serves three purposes. The first is that this is an important check on the bylaws and constitutional requirements of the Student Government. By following its own rules, student government representatives can understand the burdens and costs these rules place on other students. This asymmetry created when they do not follow the rules makes it harder for Student Government to advocate for students and for students to trust the government's actions.

The second is that organizations deserve predictability and consistency, which they look to Student Government to provide. When officials violate their own bylaws, it has the potential to burden students' organizations with unexpected consequences, and it becomes harder for them to fulfill their purposes. The third is that, should Student Government officials violate bylaws, it constitutes an argument from the government itself that the law needs exceptions. This means the government ought to look into changing the rule entirely rather than just breaking it. Otherwise, the rule loses authority.

Student government officials are also obligated to advocate for the student body with the power afforded to them in the Constitution and bylaws. Officials are put in power with students' votes, meaning students' interests should be the goal of the government. When Student Government officials fail to advocate for

students, they reject the nature of their own job.

Yet democracy is not a one-way street. The student body also has two duties. The first is to be well informed, active participants in the voting process. With student government elections just wrapping up, this obligation has recently been center stage.

A second, less frequently discussed piece of the process is our responsibility to hold student government accountable throughout their term. As we look towards the future, it seems like an important time to look back at an example of why these obligations are important and how to give students recourse.

The first time most organizations heard about the 2016 Student Organization Summit (herein referred to as Summit, not to be confused with CMU Summit, an event hosted by the Chinese Student Scholar Association) was through an email that threatened de-recognition for the organization should they fail to attend. The Committee on Student Organization (CoSO) Bylaws state that “CoSO is expected to accept applications for re-recognition from groups whose complete and accurate application demonstrates a continuing pursuit of their stated primary purpose,” and make no mention of an event like Summit in the definition of a complete and accurate application. Although the bylaws seem to make it so that Summit could not be grounds for derecognition, many students were not familiar with the bylaws and took this threat seriously, resulting in confusion and panic among those dedicated to the organizations. Students who were not free on Valentine's Day, did not expect this threat, missed the email, or plenty of other occurrences that were not their fault suddenly felt their organizations were on the chopping block.

While student organization leaders may not know the bylaws and inner workings of CoSO, were taught about the re-recognition process by

their predecessors. A drastic change to the process needs to be handled carefully because it can cause difficulty for an organization, and confusion that would hurt the organization's ability to pursue their goals.

Many organizations were greatly confused by the transition surrounding Summit. Beyond the turmoil surrounding the derecognition threat, there was confusion about whether Summit was in addition to the re-recognition process as per usual or whether it replaced the process entirely and about who the change applied to. Traditionally the re-recognition process for mature organizations, which are organizations that have been on campus for seven years or more, is separate from the process for young organizations due to their different needs. Summit lumped certain young organizations who were working through the standard procedure but had not yet finished getting re-recognized in with a subset of mature organizations.

This situation becomes more troubling when one realizes that, as explained by a source within CoSO, “much of the reason [young organizations] weren't re-recognized during the fall was because CoSO wasn't doing it's job properly. They weren't finishing up. They weren't meeting with these organizations properly and weren't discussing these organizations in a timely manner.” This ended up applying inconsistent standards to young organizations applying for re-recognition based on whether CoSO managed to have time for them in the fall or not, and punishing organizations who got lost in the process with a sudden move for things that were not their fault.

In the end no one was derecognized for their inability to attend Summit, which indicates that the threat was empty to begin with. This means the letter of the bylaws was not directly violated, but the spirit of them was and it is quite possible that the trust of organizations was. They

were threatened with a serious punishment for failing to do something not central to their purpose on campus. This is not fair to those organizations and certainly not advocating for them.

In addition, while no one was derecognized, organizations were put on probation for failing to attend the event on Feb. 14. Probation can cause significant inconveniences for organizations based on the consequences assigned by CoSO and, more simply, can scare and confuse an organization. When their organizational efforts are focused on figuring out why they were on probation, this can take time and resources away from an organization's function.

The other problem with probation is that the burdens on organizations to avoid it are well-defined. According to the CoSO Bylaws Article VII, Section B, “Criteria for Recognition Probation include 1. Repeated and/or egregious failure to meet the expectations placed on Student Government Recognized organizations, as described in the Carnegie Mellon University Student Body Constitution (herein referred to as the Constitution); 2. Decrease in membership to less than eight (8) members of the student body.” Those responsibilities, according to Article VI Section D the Student Body Constitution include a requirement to “1. Notify [CoSO] regarding any change in name, mission, or purpose; 2. Notify [CoSO] regarding any change in contact information for officers of the organization; 3. Pursuit of the organization's primary purpose and goals, in the form on record with the Committee on Student Organizations; 4. Adherence to [the bylaws and constitution of Student Government, the university, and the organization].”

These are the ground rules and expectations that have been laid between Student Government and organizational officers. Violating these expectations by placing burdens on them outside of this scope is both a

failure of Student Government to follow its own rules and harmful to the organizations.

Of course, the Constitution is a living document that can be amended if a branch of Student Government wishes to change its policies. This process, however, is intentionally structured to ameliorate the issues stemming from a big change, many of which are described above. No amendment was passed.

Summit is only one example of an issue the Student Government and student body need to have a dialogue about. With elections wrapping up, the vast majority of the voting that will happen already has. However, going forward, the next Student Government has important considerations to make regarding how to keep itself accountable to its bylaws and responsibilities.

The first is fiscal transparency of Student Government actions. This makes it easier for students to see how Student Government money is used. This will both improve campus knowledge of various funding sources and what they are used for and create accountability for Student Government officials to use their funds within the scope of the existing rules.

The second is better avenues of protest through governing bodies like Student Senate and the Graduate Student Assembly. Organizations should have been able to challenge the derecognition threat or probationary period in regards to Summit, and they should also be able to challenge actions by the Student Government they feel to be wrong as a whole.

Senate and GSA are representative bodies and have knowledge of how Student Government processes work, making them a good check on the actions of the Student Government Executive Branch.

With these and perhaps other new measures in place the student body will have the resources it needs to uphold its end of the bargain.

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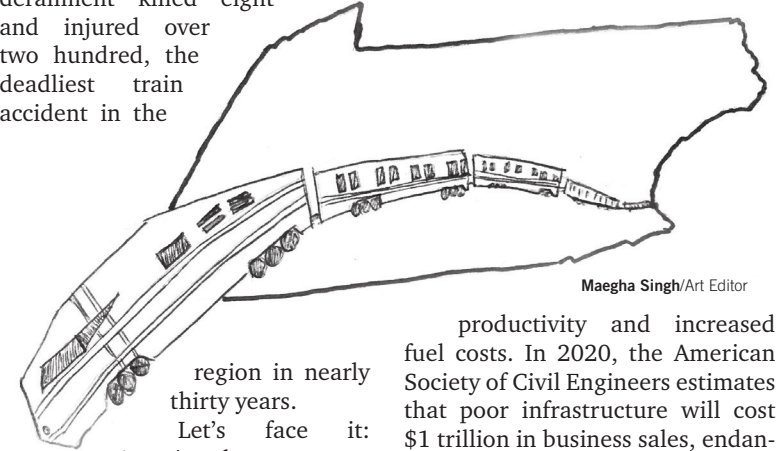
American infrastructure trainwreck demands aid



EMMETT ELDRED

Last Sunday, April 3, a trail derailment in Philadelphia killed two construction workers and injured thirty-five people.

Just a month ago, a train derailment in Kansas injured thirty-two. In 2015, another Philadelphia derailment killed eight and injured over two hundred, the deadliest train accident in the



Maegha Singh/Art Editor

region in nearly thirty years. Let's face it: America has a transportation infrastructure problem, and it's getting costly and dangerous.

Once known for our innovative, state-of-the-art highways and railways, our country now lags behind much of the rest of the industrialized world when it comes to public investments in transportation. We're losing money, and lives, because we lack the collective will to tackle our infrastructure head-on with meaningful and decisive action.

While many advanced nations are pushing to update their infrastructure, the United States is falling behind. In less than a decade, the United States fell from 7th in the World Economic Forum's rankings of international road quality to 18th.

When considering infrastructure holistically, the World Economic Forum ranks the United States even worse: 25th. China ranked lower, yet it is moving up, while the United States continues to fall down. China spends 9 percent of its GDP on improving infrastructure compared to the 2.4 percent of GDP that the United States spends for that purpose.

This lack of public investment is reflected by sobering statistics. 65 percent of American roads are in poor condition, and 25 percent of America's bridges urgently require repair or handle more traffic than they were designed to handle. Here in the City of Bridges, 20 percent of our bridges are structurally

deficient, including the all-powerful Liberty Bridge.

The United States ranks 18th in the world for the quality of our railroads and just 30th in the world for the quality of our air transport. Meanwhile, nearly half of Americans lack stable access to any transit at all.

Having such poor infrastructure has fiscal and physical consequences. Americans spend 5.5 billion hours in traffic every year, resulting in hundreds of billions of dollars in lost

productivity and increased fuel costs. In 2020, the American Society of Civil Engineers estimates that poor infrastructure will cost \$1 trillion in business sales, endangering 3.5 million jobs and costing the GDP \$3.1 trillion between 2012 and 2020. Historically, huge public investments in infrastructure, such as the transcontinental railroad and the Interstate Highway System, have corresponded with periods of unbridled economic growth and productivity. In our current case the converse is true: failing to invest in infrastructure has suffocated our economy.

More importantly, the New York Times estimates that more than 14,000 transportation deaths are caused by poor infrastructure every year.

Train derailments are a perfect example. Many derailment deaths, including the deaths in both of the above Philadelphia derailments, could have been prevented had those railroads been retrofitted with a technology called Positive Train Control.

It is a moral failing to allow so many transportation-related deaths that could be prevented by greater investments in infrastructure.

It's time to get over our infrastructure problem by committing to a massive infrastructure spending program over the next decade. It's time to bid farewell to train derailments and traffic jams, and time to greet a new American century marked by the innovation, economic growth, and security that enhanced infrastructure can help provide.

Emmett Eldred (@eeldred) is a staff writer for The Tartan

Tiny barriers make or break recovery

JOSHUA BROWN
SciTech Editor

Over the past few weeks, mental health issues have risen to the forefront of many of our conversations, and rightfully so. College is perhaps the most stressful and change-intensive time that any of us have experienced thus far. Given that we're all making some generally life-defining choices so early on in our adult lives, there's bound to be some excitement for the future, but also some fear. We're afraid that we won't get good grades, which means we won't get an internship, won't get a job, and we'll all die penniless and alone, begging on a dingy little street corner in Ohio somewhere. With so much to juggle and so little time in the day, we're bound to be stressed and maybe a little exhausted. Exhaustion and perceived stress are two susceptibility factors in burnout, which can lead to depression and feelings of being overtired and overwhelmed. With so much of our self-worth often tied to external things like our workload or our general success, we can often fall into a slump when we don't meet the standards set before us, and we begin to feel like all of the work we have been putting forth just isn't enough or isn't worth continuing. This is a burnt-out state: we lack energy, lack motivation, and this feeling can spiral into depression before we know what hit us. And when these sort of personal issues arise, it can be very difficult to reach out and ask for help, or even to talk with someone.

The causes of depression and similar disorders are myriad, but in college, some of the largest factors are our perceived success (how often do I succeed at something I try?), our social support (do I have people I can talk to who will support me?), and our sense of belonging (is this the place for me, or am I just taking up space?). Without these things, we can start to feel isolated and develop a cycle of negative thoughts and neurotic reactions that can spiral out of control. This was the case with my own experience during the spring of 2015.

Long story short, I needed some help. I've never been the kind of person to ask for help, at least when it comes to personal matters, but one fateful day I summoned up enough energy to meander over to Morewood and try my luck with CaPS. Lo and behold, the big metal door was locked (during business hours), and while there may have been another entrance of which I was unaware, that was enough for me. I packed up my help-seeking and curled up in bed.

The point here isn't that the door was locked (for some unknown reason). It's that I had finally mustered up the energy and the wherewithal to try and talk to someone, to try and fight whatever cycle I was in, and was met with a roadblock. One symptom of depression is a lack of energy and motivation; the sheer amount of energy it takes to be able to say "I'm going to actively try and fight this today" is extraordinary in such a state, and to have those efforts be thwarted, even by something as silly as a door, can be devastating to that initiative.

This anecdote of the closed door can be extrapolated to many situations of which I've recently become aware. While there are many other factors which might preclude one from getting the help they need, I'll focus on a resource specifically created for assisting with students' psychological needs: Carnegie Mellon's Counseling and Psychological Services (CaPS).

I have heard many stories about CaPS. As a Resident Assistant (RA), I was taught during Orientation that CaPS is a resource for students, and that if anyone is having a problem, CaPS can be depended upon to assist. And yes, I have certainly spoken to those who have seen success in dealing with CaPS. But an overwhelming vibe I am picking up, at least in my own friends' experience, is that CaPS has some major strides to make before it can really be called a dependable resource for our student population.

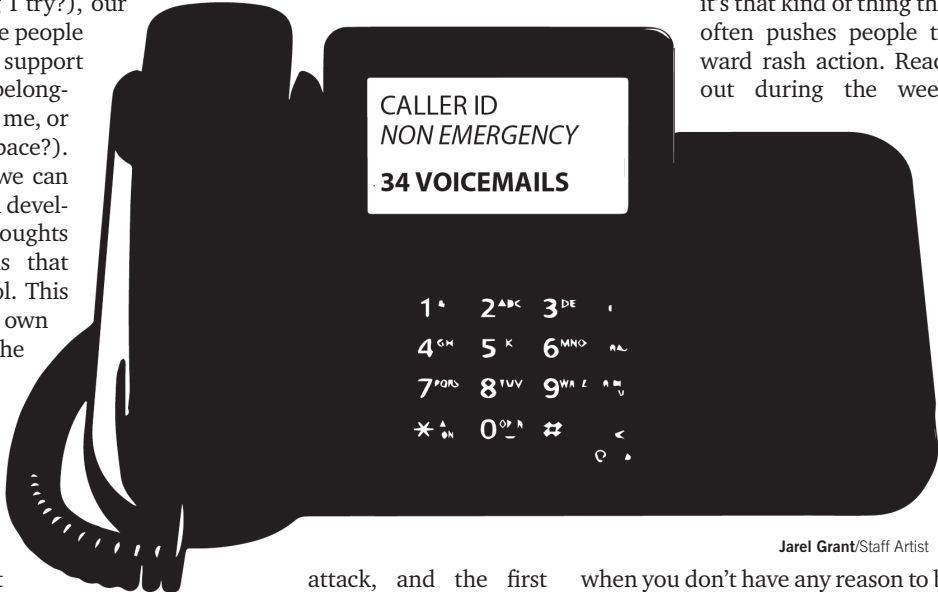
Barring my own personal experience (or lack thereof), I have a friend who called CaPS in the early morning while having a panic

attack, and the first response with which she was met was "Is this an emergency?" Thinking something along the lines of "Well, I don't know, is it? There are probably people worse off than me," she hung up and waited out the night. I have heard a similar story from several other friends and acquaintances, and it doesn't quite sit well with me. It's not as if this is a malignant

question. There's no malice in asking whether or not a situation constitutes an emergency, but I think this is a blunt way of handling these phone calls. It places a lot of self-assessment in the hands of someone who might be unable to make these sorts of calls at the moment, and it provides another block in the road to someone's potential recovery or present wellness.

I've also heard stories of CaPS actively hanging up if the caller answers with a "no, this isn't an emergency," sort of answer. While I understand that emergencies should take priority, and that the on-call staff might not nearly meet the present need, it's rather cruel for the campus's counseling service to actively ignore students who have taken the time to seek out help.

I suppose the point of all this isn't necessarily to be pejorative towards CaPS. It's to express frustration for the hurdles (however small and melodramatic) through which we must jump to find help. My personal opinion is that mental health issues aren't something that can necessarily be solved or even heavily ameliorated administratively. A lot of these less severe, more fleeting issues (like my depression) can be successfully managed by just speaking with friends or having friends or doing friendly things, and having the social structures in place to really feel close to someone. In our day-to-day lives, we might think about ourselves more than others, or only our close friends. It's surprising what an open hand or a little conversation can do for someone's day, so I would encourage any reader to be an open hand rather than a closed door. Don't concern yourselves only with emergencies; it's that kind of thing that often pushes people toward rash action. Reach out during the week,



Jarel Grant/Staff Artist

LETTER TO THE EDITOR: STRESS CULTURE AT GRADUATE STUDENT LEVEL

As my first year here at Carnegie Mellon rapidly approaches its culmination, I would like to comment on the culture and support network that is being so hotly discussed around campus. As a person with a military background, I know the stress of combat, impossible deadlines, and true life-and-death decisions. Carnegie Mellon does not ask for any of those, yet I am more stressed and demoralized about my own capabilities than ever before. I didn't want to believe that it could affect me because I thought it was

simply a product of young undergrads with little real-life experience. I was wrong.

The graduate student community is being overlooked in many ways, with the vast majority of the focus placed on undergraduates. Provost Jahanian's email today (April 1) states that "it is clear" that faculty "understand the pressures many of you face." I have leaned on my advisor and many other professors and students and all have offered significant support. Yet in the classroom it is a different story.

There is a belief that as a graduate student you are not entitled to breaks, expected to be overloaded, and even to fail. Days after an exam where the entire class questioned why we were at this university, the professor proceeded to say that he expected the highest grade to be a 50. Another said "graduate students don't get days off" and held class on a day the university calendar marked for no classes. Another assigned a project with no warning before Spring Break, with mandatory submissions during the break.

Heinz College doesn't even follow the larger university calendar. Advisors actively tell you not to do homework and focus on research. There are few resources for those who have children and spouses.

I say this not to complain, but rather to inform. Professors must acknowledge that the guidelines established by the university are clear on the expectations. A 12-unit course is supposed to require 12 hours of work per week, to include class time, recitation, and assignments — not 30. The

best way to mitigate the issues of students is to realize that nobody wins when students give up on trying because they have no more time or energy to put towards the assignment. Saying "the rules don't apply because you're in a graduate program," or, "you should be able to deal with that on your own" do not fall under the support concept the administration is seeking. Change starts at the classroom level.

Anonymous

LETTER TO THE EDITOR: CMU ZERO TOLERANCE SEXUAL ASSAULT PETITION

Over the past few days, a *change.org* petition for "Zero Tolerance for Sexual Assault at Carnegie Mellon University" has been circulating through social media. People have shared it on Facebook pages, campaigned for it in line for the Hillary Clinton rally, and asked admitted students to sign it.

During my time at Carnegie Mellon, I've transformed Carnegie Mellon's feminist organization, MORE, turning it from a group of three freshmen to what it is today, a club that raised thousands of dollars for reproductive rights at *The Vagina Monologues* and brought the campus together for sexual education at *Love Female Orgasm*. I have always been an advocate for survivors, but that is not why I'm writing today. I'm writing because I did some thinking, and I do not support this petition.

The writers of this petition are correct in that Carnegie Mellon has a huge sexual assault problem. Our numbers are significantly above the national average and that needs to be

addressed via serious policy change. This petition proposes one solution that I've been told I should agree with, but I can't endorse.

The petition as it currently stands requires mandatory expulsion for any student found responsible for sexual assault via the University Disciplinary Committee. Carnegie Mellon's definition of sexual assault is consistent: "any physical sexual act perpetrated against a person's will, where that person does not give clear and voluntary consent, or where that person is incapable of giving consent." Any physical sexual act perpetrated against a person's will includes grabbing someone's butt at a party, or kissing them before asking. Sexual assault also includes situations where one or both parties are intoxicated.

Mandatory expulsion would be harsher than any other university policy. The closest comparison is Dartmouth College's policy, which mandates expulsion only in specific cases such as repeat and violent

offenses. The proposal, much broader than Dartmouth's, would force the Disciplinary Committee to act as an expulsion committee, rather than one that decides a consequence appropriate for each individual case. *This does not mean that the University should not expel rapists — in fact, it regularly does.* But it also decides what to do in cases that are not so clear-cut. What if we had clearly delineated consequences so that survivors had a strong grasp of what was a likely outcome? Consequences like mandatory counseling, community service, suspension, and removal from campus housing could all be publicly known consequences that a survivor might select and recommend to a Disciplinary Committee.

Some might think the only reason survivors go to the University Disciplinary Committee is in dire situations. I find that argument odd. The Disciplinary Committee is an opportunity to arrive at a formal, rather than informal, decision over a violation of our sexual assault policy, and

is often a reasonable way to address a dispute in a controlled setting. Students choose to go through the formal process for sexual assault for many reasons, and not all of them warrant mandatory expulsion.

The other two aspects of the petition — Transparency and Education — are initiatives that the Title IX Office has not only already agreed to, but has been working on for some time. They've made it clear that both of these points are part of their initiatives moving forward. More transparency about the actual consequence determination processes, both formal and informal, is necessary moving forward, but has not been addressed by the Title IX Office or this petition. I hope that the discussion surrounding this petition leads to a broader knowledge of the operations of the Title IX Office, rather than a dismissal of it as ineffective.

Carnegie Mellon has a sexual assault problem. But mandatory expulsion for anyone who commits sexual assault isn't the solution. Hopefully,

discussion of this petition will bring up other policies that we can take away from Dartmouth College's more rigorous sexual assault prevention strategy, including an online reporting option, mandatory expulsion in serious cases, and clear delineation of consequences for specific violations. The people who wrote this petition clearly care about survivors of sexual assault. But in their empathy, they lose sight of the fact that not all situations are black and white. I encourage readers to consider whether this policy and this document are worth supporting.

We've been given a great opportunity by the writers of "Zero Tolerance for Sexual Assault at Carnegie Mellon University." In the wake of the Title IX investigations our University has faced, we now have the opportunity to use both our hearts and minds to make policy decisions about its future. Let's make the right ones.

Sophie Zucker is a senior chemistry and creative writing major.



Science & Technology

SCITECH BRIEFS

New material turns water to steam without boiling

Researchers have created an extremely black material that can turn water to steam without boiling. The material, a deep black color that reflects little visible light, is made up of “nanopores,” gold nanoparticles affixed to a scaffold pocked with tiny channels. On April 8, the researchers reported in *Science Advances* that the material is 99 percent efficient at absorbing light in the visible spectrum and parts of the infrared spectrum.

The material floats on the surface of water due to its high porosity, allowing it to naturally soak up sunlight. The electrons on the surface of a gold nanoparticle in the nanopore are excited when hit with a certain wavelength of light, and they oscillate back and forth. These oscillations, known as plasmons, create localized heating, which vaporizes the water nearby.

Source: Science News

Fresh fruit intake reduces risk of adult heart attacks

According to new research published in the *New England Journal of Medicine*, people who eat fresh fruit daily are at a lower risk of heart attack and stroke than people who do not.

Researchers from the University of Oxford and the Chinese Academy of Medical Sciences conducted a survey of half a million adults in urban and rural areas of China who had no prior cardiovascular diseases or anti-hypertensive treatments.

The researchers monitored fruit intake (mainly apples or oranges) and health for seven years. The study found that fruit intake was strongly associated with other factors, such as education, lower blood glucose, lower blood pressure, and not smoking. The study also found that fruit intake alone was associated with about one-third less cardiovascular mortality in both men and women from different areas of China.

Source: Science Daily

Curiosity shown to be masochistic biological drive

New research published in *Psychological Science* shows that people will choose potentially painful outcomes with no obvious benefits just to satisfy their curiosity.

“Just as curiosity drove Pandora to open the box despite being warned of its pernicious contents, curiosity can lure humans — like you and me — to seek information with predictably ominous consequences,” said study author Bowen Ruan of the Wisconsin School of Business at the University of Wisconsin-Madison.

Researchers designed a series of experiments to test the hypothesis that people are willing to resolve uncertainty even if it brings them pain. In one study, 54 college students were given various types of pens that deliver electric shocks when clicked. Participants who were unsure of whether the pen would give an electric shock were more likely to click the pen to find out than participants who knew prior.

Source: Science Daily

Engineered protein controls complex behavioral circuits using magnetism

THEODORE TEICHMAN
Assistant Photo Editor

This past month in an early release to *Nature*, the lab of Dr. Ali Güler at University of Virginia demonstrated the ability to remotely control the activity of specific neural circuits using magnetic fields at a distance.

This discovery is the newest in a line of method research in the field of neuroscience that is rapidly approaching the concept of being able to specifically target certain cells and generate a specific behavioral or phenomenological experience; one might say “mind control.”

At first, the idea of scientists being able to control someone else’s behavior rapidly and non-invasively may seem terrifying, this new method is not that much more dystopian than the myriad of modern methods of neural mind control to which we have access today.

Let’s first take a few steps back. Only a little more than 10 years ago, the best methods available were electrical patch clamp stimulation and psychopharmacology. Electrical patch clamp stimulation targeted a specific

area of the brain, but was not specified to a specific type of neuron; this means that researchers were unable to stimulate at a fine resolution. Psychopharmacological methods were able to target a specific system of neurons that all expressed the same receptors, but was not specified

research and clinically for much of neuroscience’s history. We have a slew of medications that are designed to interact with individual receptors in the brain,

parts of the brain, dopamine is necessary for movement; people can take anti-psychotic drugs and develop Parkinson-like symptoms.” In order to address these problems of specificity in location and cell type, scientists turned to genetic modifications to provide the necessary targeting abilities. Researchers introduce a viral vector that interacts with a specific neuron type and induces the production of a Channelrhodopsin protein. This protein, when stimulated by light, causes an influx of positively charged ions, paralleling the functioning of indigenous receptors when activating the cell. Through this method, fiber optic cables can be implanted in the target regions of the brain being studied and then this specific subset of cells can be activated by turning on the light.

By this technique scientists are able to uncover what effect on behavior or “thought” the activation of this specific set of cells

See **MAGNET**, B10

Exploring agency through the ages

NAVIYA SINGLA
Staffwriter

“Am I a slave to my deadlines,” and “what does it mean to be alive” might rank rather high in one’s list of existential crises.

After a sleepless night of homeworking and battling the raging desire to sleep, or to do anything other than that sadistically long problem set, one might ask herself “Do I control my own life?” These questions are not relegated only to sleep-

deprived college students’ early morning musings; they’ve been at the center of many intellectual debates over the past 600 years. A generation’s opinions about these questions are representative of their beliefs about the past and their expectations from the future.

This timeless fascination with the question of what it means to be living has been explored most recently by Jessica Riskin, a history professor at Stanford University. In her latest book, *The*

Restless Clock, she moves past the previous theologically and philosophically grounded discussions and looks at these questions of autonomy through the lens of a historian.

Riskin’s work explores the definition of an “automaton,” or a human-like machine, as well as several theories surrounding the mechanism of life. The idea of mechanically creating another “human” is an intriguing one. This idea was first explored within a theological context.

In the 15th century, automatons were often used to depict biblical scenes and dazzle the audience with the power of life-like presentations, convince them of the terror of devils, the holiness of angels and the “reality” of the Nativity scene.

Churches would often use mechanically operated (usually using pulleys) devils, angels, saints and other figures from the bible. These automatons would be used to put

See **AGENCY**, B9

Mechanical engineering students create self-filtering water barrels

JONATHAN CALVELLO
Staffwriter

Throughout our day, most of us probably aren’t worried about where we’re going to go when we get thirsty: the myriad of water fountains and soda fountains make beverages an easily accessible commodity. Not all parts of the world are fortunate enough, however, to have such access to clean, filtered water. In fact, most third-world countries struggle to develop a sustainable supply of clean water.

A group of senior mechanical engineering students at Carnegie Mellon University attempted to solve that problem by developing a filtration mechanism that filters water as it is transported. The filtration consists of a big barrel that contains a smaller barrel inside of it, with a handle attached for pushing motility. The concept behind the design is that as the barrel is rolled along the ground, the motion caused by pushing the big barrel filters the dirt away from water and stores the purified, clean water in the mechanism’s smaller barrel.

“We had already seen some ideas out there that filtered water, and others that rolled the water using barrels, but we wanted to create something that filtered while you rolled,” said Deepak Ravi, one of the senior mechanical engineering students on the project, in a University press release.

The beauty of this water filtration system is that it filters water as it is transported, and it is industrially very simple in design. The filtration system contains only a few simple parts that amount to no more than \$200 in cost, and requires no power input other than the physical pushing of the barrel by users during transportation of water. The system uses a Sawyer water filter and relies on a process called reverse osmosis. The basic design behind a reverse-osmosis water filter is that the filter is made of a porous substance that allows water to flow through it. Because water is in the liquid phase, it is able to deform and flow through the filter without any issues; any solid particles, however, cannot fit through the pores

in the filter, and instead become trapped in the matter of the filter. The efficiency of a reverse-osmosis filtration device is dependent on its pore size: the smaller the pores are in the filter, the more solid particles it can trap. The Sawyer filter in the water barrel mechanism filters water as the barrel is pushed, conflating the issue of filtration and transportation into one solution.

Other types of water filtration mechanisms do exist, such as ion exchange or activated carbon. In these filtration devices, water is passed through a chemical that adsorbs the dirt and other particulates that contaminate the water. While these types of filters are popular, they can get pricey due to the cost of the chemicals required for filtration.

The advantage of using the Sawyer filter is that it does not need to be replaced, making it a one-time purchase that does not need to be refurbished over time, unlike the activated carbon or ion-exchange filtration mechanisms. Additionally, the group used a recycled

industrial barrel as opposed to purchasing a new one to cut down on the cost of the device. The barrels are usually thrown away after they are used, so this senior project finds an exceptional application for what would otherwise be considered garbage.

Although this prototype was designed as part of a graduation requirement, the group of seniors is hopeful that their design is able to grow into something bigger than just a class project.

The group calculated that if mass produced, the cost of the barrel filtration mechanism could be reduced from \$200 to just \$40. The seniors are hopeful that they can find a company willing to mass produce their filtration system, allowing their design to reach thousands of impoverished people in developing countries. “If someone wants to manufacture our system and get it down to that \$40, none of us would be upset,” said Anna Mirabella, another one of the seniors on the project, in a University press release. “It would be awesome to have had a small part of something big.”

SCITECH BRIEFS

Record-setting supermassive black hole discovered

The discovery of a near-record supermassive black hole in a local galaxy has prompted researchers to think that supermassive black holes may be more common than originally thought, according to University of California, Berkeley astronomers.

The supermassive black hole is around the size of 17 billion suns, and located in a galaxy known as NCG 1600. Images taken by the Hubble Space Telescope reveal that the center of NGC 1600 is unusually faint, indicating a lack of stars close to the black hole, meaning that the galaxy is, therefore, massive. The researchers reported the discovery of the black hole, located about 200 million light-years from Earth in the direction of the constellation Eridanus, in the April 6 issue of the journal *Nature*.

Source: *Phys.org*

Chinese farmers help bees, hand-pollinate flowers

As a result of the worldwide decline in bee population, farm workers in Hanyuan county, in China’s Sichuan province, are pollinating flowers by hand. The county, known as the “world’s pear capital,” has seen drastic reduction in fruit crop as a result of pesticides reducing bee populations.

Farm workers transfer pollen from male to female flowers to artificially fertilize them. Photographer Kevin Prayer captured images of the workers pollinating the plants, saying, “On the one hand it’s a story about the human toll on the environment, while on the other it shows our ability to be more efficient in spite of it all. It is entirely possible than in our lifetime this practice could become the norm all over the world.” Bees are crucial not only to our ecosystems, but also to a heavy majority of our produce.

Source: The Huffington Post

SpaceX lands reusable rocket on ocean platform

After four failed attempts, SpaceX has successfully landed a reusable rocket on an ocean platform off the coast of Florida.

The rocket, called Falcon 9, was returning to Earth after delivering an inflatable habitat built by Nevada company Bigelow Aerospace that will attach to the International Space Station for a two-year test.

After the cargo was delivered, the main-stage booster of the rocket separated and landed on a floating platform called a drone ship.

“The rocket landed instead of putting a hole in the ship — or tipping over — so we’re really excited about that,” SpaceX founder and chief executive Elon Musk told reporters in Florida.

This is the first cargo run NASA has made with SpaceX since their rocket exploded after launch in June 2015.

Source: The BBC

Compiled by
JULIA NAPOLITANO

PUGWASH

Cyber-space provides inauthentic analog for real world life



THATCHER MONTGOMERY
Contributing Editor

Last week, Pugwash joined forces with the Humanist League for a joint discussion about the differences between the real and virtual worlds.

It's possible for people to spend the majority of their time in a virtual world making friends, achieving goals, and building a life, all in a video game or some other form of alternate reality. Are these actions somehow lesser when compared to their real-world counterparts? Is there a danger involved with the virtual world?

One of the very first points made was to change the wording of the subject matter. By calling our physical world the “real” world, and the online or technology-driven world “virtual,” the language itself was already putting the physical world above the virtual one.

Instead of using real and virtual to refer to the distinction, it was proposed that we should refer to them as meat-space and cyber-space, so as to put them on a more linguistically even level. This proposal was enthusiastically agreed upon by all present.

Along with changing the terminology, many argued that the line between the cyber-wold and the meat-world isn't a clear one. It's

not a distinct binary when you can be sitting in class, listening to a professor lecture, and then glance down and be communicating with someone across the hall or across the world. Even using e-mail to talk to people blurs the line between the cyber- and meat-worlds. This is only one reason to prefer the meat-world to the cyber-world.

Without devaluing the experiences in the cyber-world, they are still based in the meat-world and rely on the meat-world, whether through electricity and server-space or because as humans we need to take care of our physical bodies.

Despite relying on the meat-world, the cyber-world can still offer meaningful experiences. It can also offer completely pointless experiences, just like the meat-world.

Playing *Flappy Bird* and playing *Portal* offer different levels of experience in the cyber-world, just like fast food and a nice restaurant

do in the meat-world. Social interaction is an area over which the meat-world has the upper hand. Humans communicate through so much more than just words, and

lacking. A counterpoint is that cyber-world interactions could become equal, with advances in technology.

From letters to phone calls to Skyping, and next to virtual reality, technology is making

anonymity. Without the social cues and accountability that come in the meat-world, does the cyber-world encourage productive debate? On one hand, anonymous online communities have allowed for marginalized groups to come together and share in interests that might be looked down upon in society at large, which could be beneficial. On the other, losing out on social mores and reverting to rudeness is a serious concern. An interesting point was made that humans have been using various cyber-worlds for millennia, counting books, plays, art, and even further back to oral tradition and religions or mythologies. Escapism is an essential part of being human, biologically built into the human experience as dreams. Whether escaping into a book or a video game, it's the same root concept. The only problem comes when it becomes difficult for the escapee to tell the difference between the cyber-world and the meat-world. One example was of someone who drove into pedestrians, thinking

they were still playing Grand Theft Auto. Problems arise when people can't tell the difference between fact and fiction, and live in their own reality unshared by the rest of society.

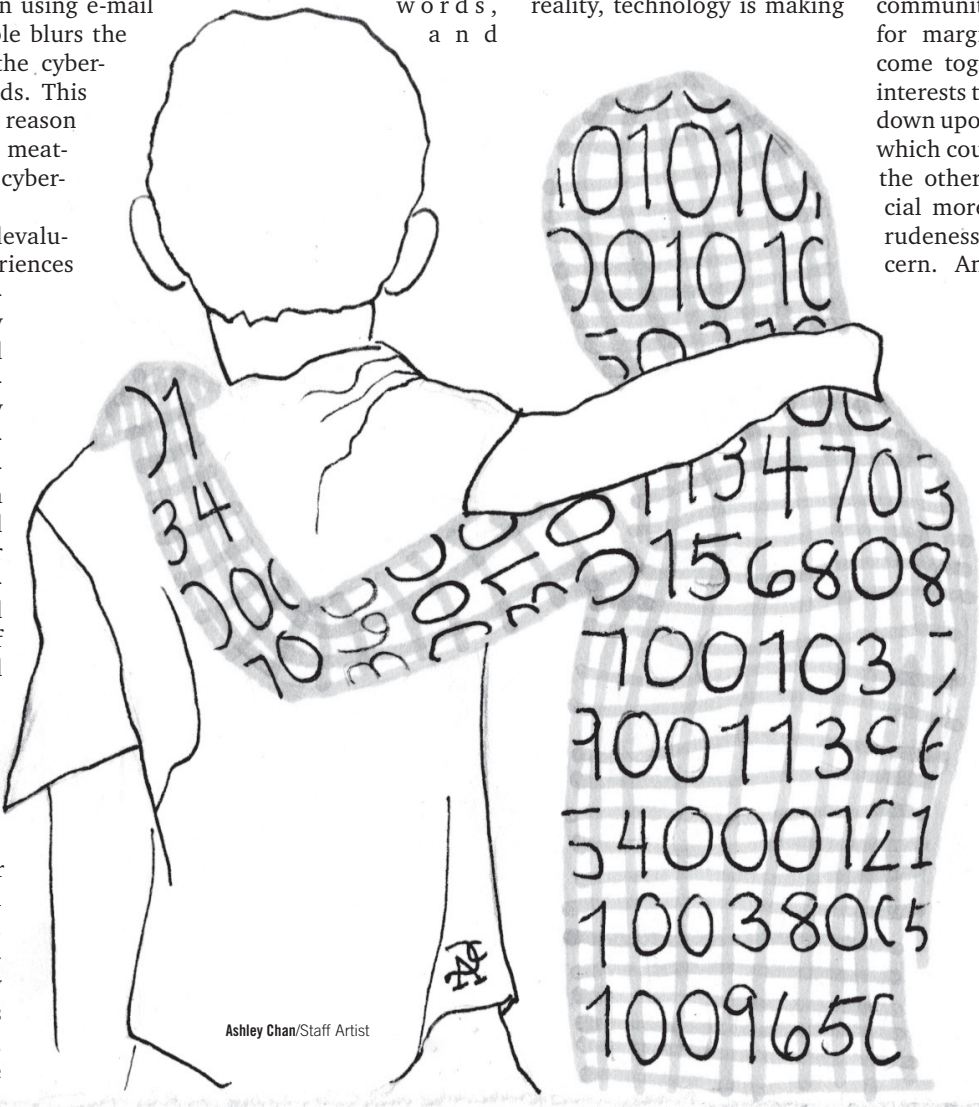
Perhaps if everyone were able to transition into a cyber-world and leave the meat-world behind for good, then it would be acceptable, as there would still be a shared reality within the cyber-world, and no transition problems moving from one to the other.

However, this brings up pragmatic issues that occur even in less-extreme scenarios. With two split worlds, meat and cyber, a question of access arises. Like most technology, the rich are able to use the cyber-world more than the poor, and as we come to rely on the cyber-world for more and more, this disparity would become more apparent.

While having inequality is not a new thing, moving our lives into the cyber-world could exacerbate the problem. Even if all currently foreseeable problems could be solved, humanity has a way of jumping in first and asking questions later.

For example, while we're not particularly well-suited to drive two-ton killing machines at 60 mph, but we managed to make do, especially with seatbelts and other later additions.

Entering into cyber-world might be the same way — while it might be bumpy, eventually we can use it to our advantage.



Historian tackles the question of “what it means to be alive”

AGENCY, from *B8*

up a show that was intended to inspire fear and reverence into the audience. Soon enough, the public discovered that these contraptions were the work of man and not of the Divine Providence.

This led to the public trying to ascribe greater power over mankind's actions to God as opposed to God that simply reacted to mankind's actions.

This reimagined God — unlike the medieval God — had a monopoly over fate and like a clockmaker governed the workings of his clockwork world. This idea of having no agency (no control over your actions) became popular and

still is. As the Age of Reason set in, and the Church's authority came to be questioned by scientific minds like those of Galileo, Descartes, Mersenne, the idea of having no agency developed a different reasoning.

Descartes ascribed the products of engineering such as bellows, hydraulic systems, irrigation systems and furnaces to biological systems.

Furthermore, he argued that such systems were driven by external stimuli, essentially saying that we are completely governed by our environments (including expression of complex emotions like humility, liberality, veneration etc.) This

Cartesian philosophy used the analogy of hydraulic systems, containing the vital fluid — “animal spirit” to “drive” humans.

This fluid would behave like all other fluids — it would pursue equilibrium, climb siphons, flow i.e., “have a purpose” (fluids are always flowing to somewhere). Fondly “rationalizing” life and agency (or lack thereof), Descartes in Riskin's opinion sought to eliminate philosophy and theology from that was “obviously scientific”.

No doubt, this brought about an epistemological revolution (the way people think about how they think) imbibed with the belief that “Machinery

means Intelligibility” — the association of hard data and empirical reasoning with intellect. Unsurprisingly, Descartes was also the first to explicitly express a “subjective sense of selfhood” in his opinions by acknowledging that his thoughts made him who he was. In response to this argument, Leibniz introduced the idea of a “living force”.

He differentiated it from the Newtonian concept of force by saying that motion wasn't a real thing, it was the effect of an interaction between objects.

This force was “real”, an inherent property that belonged to the body itself. Both of these theories however, are incomplete. The “force”

or “animal spirit” we're unaccounted for and do hint at the involvement of either human will or divine intervention.

Pointing out these flaws. In 1856 Henry Huxley observed that despite it being common knowledge that water was formed out of the chemical combination of hydrogen and oxygen in a 2:1 ratio, we don't understand “why” water has the properties it does.

Yet, we don't assume that there exists something called “aquosity” that takes possession of it.

Then, what differentiates protoplasm that forms the interior of living cells? One can see that the answer to this question changes

with time, and often demarcates significant changes in ideology over time.

While the above mentioned are only a few of the conversations that occur in the book, one must understand that as we as humans evolve, along with our ideas, and our technology, this question will get harder to answer simply because of the blurring boundaries between the “living” and “non-living”.

Thus, by putting forth these questions in the words of past intellectuals, Riskin engages the reader in evaluating these existential questions with respect to big-picture “processes” like evolution, artificial intelligence and epistemology.

Opening the mind: Trepanation & a culture of transcendence

JOSH BROWN
SciTech Editor

There are many ways by which people have claimed to expand their consciousness: meditation, yoga, sensory deprivation, even psychedelic drugs. But none may be more ancient, polarizing, or gruesome than trepanation.

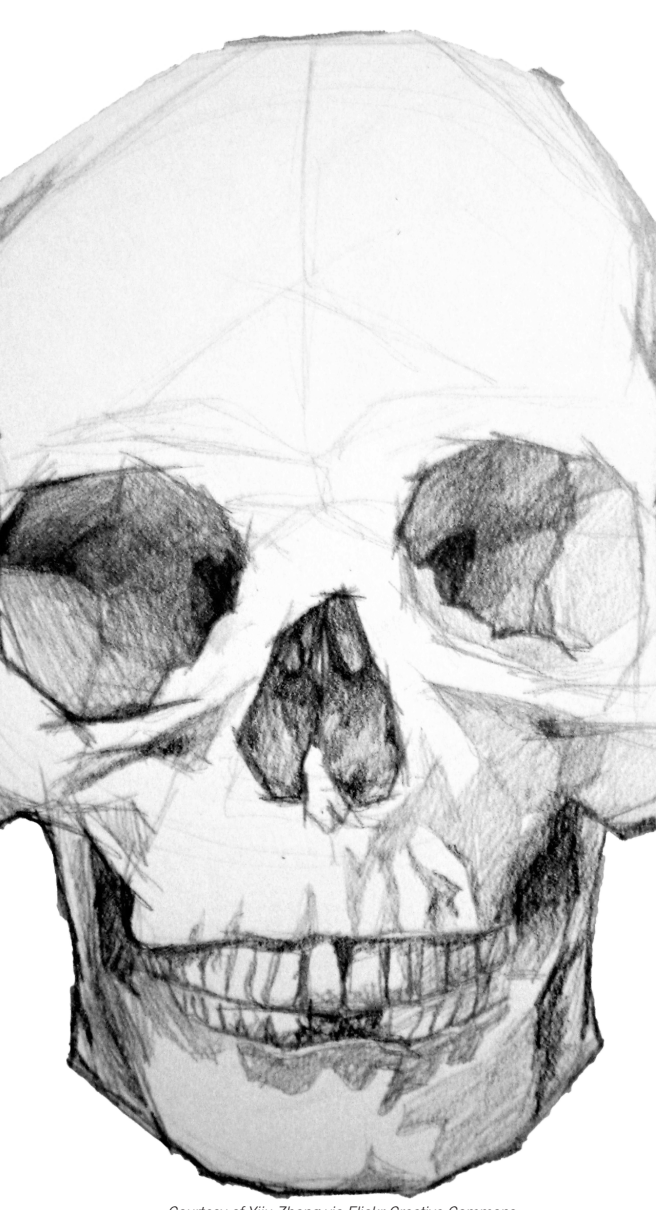
Trepanation is the process of boring a hole into the skull, just deeply enough to expose the brain's outermost meningeal layer, the dura mater. Over a short period of time, the skin will reform over the puncture site, but the hole in the skull will remain. From time immemorial, ancient cultures' medics would drill holes into their patients' skulls to cure aberrant behaviors or mental illnesses. This procedure was thought to allow evil spirits to escape the affected individual.

Trepanned skulls have been unearthed across the globe, and perhaps the earliest dates back to the 5th Millennium, B.C., according to the National Museum of History of Azerbaijan.

However ancient this procedure, it is not relegated to the annals of history. Trepanation is still practiced in the modern age in many ways. Some still view it as a religious ritual. Others, as a

gateway to transcendence. Medical professionals in the present-day, however, use a milder, temporary form of the procedure called a craniotomy, for a myriad of reasons. Craniotomies can be used to examine, diagnose, and treat certain diseases like brain tumors, to remove excess blood in the skull, or to drain pus-filled abscesses, for example. The difference between a craniotomy and a trepanation procedure is that in a craniotomy, the piece of removed skull is set back in place; in trepanation, the hole remains unfilled, covered by regrown skin.

While craniotomy has superseded full-on trepanation within the legitimate medical community, there are still niche groups who practice trepanation and advocate for its induction into conventional medicine. Individuals such as Amanda Feilding, the director of the Beckley Foundation and a self-trepanned individual, have advocated for the



procedure as a treatment for “chronic headaches, epilepsy, and migraines,” as quoted in an interview with Vice. There also exist organizations like the International Trepanation Advocacy Group (ITAG), who continue to push for destigmatization and acceptance of the procedure.

Beyond the medical community, trepanation saw an interesting surge in the 1960-70s among those who were interested in consciousness and psychedelic drugs. During this time period, several individuals involved in 60-70s drug cultures involving LSD and other psychedelics trepanned themselves.

Feilding is one such individual, as is Joe Mellen, who describes his experiences with auto-trepanation in his book *Bore Hole*. Many of these individuals were intrigued by the idea of expanding their minds and augmenting their consciousnesses, and according to both accounts, there may possibly be some merit to the assertion that trepanation could have some physiological or psychological benefits. In an interview

with Vice, Feilding spoke of a trepanned friend, “I noticed a definite change in him ... a mellowing, a lessening of the neurotic behavior that we all have.” She maintains that another of her friends “had chronic headaches that caused him to lose a day or two a week, but he hasn't had those headaches in the last 30 years [since he was trepanned].”

Feilding describes her own post-trepanation experience as “a feeling of rising, slowly and gently, to levels that felt good.” Mellen, in an interview with Vice, described his experience as “a lightness, like a weight had been lifted off [him].”

My main research question was to figure out whether or not there are any psychological or physiological explanations for these potential effects — whether pressure in the brain can actually inhibit the flow of blood or cerebrospinal fluid, thus negatively impact the brain's performance. In order to do so, I examined the role of blood and cerebrospinal fluid in the brain, as well as research which provides correlations to changing circulation of both. Findings by professor Yuri Moskalkenko, head of the

See **TREPANATION**, *B10*

Trepanation potentially capable of augmenting cerebral processes by increasing brain metabolism and fluid flow

TREPANATION, from B9

St. Petersburg Comparative Physiology of Circulation Laboratory, might be able to finally speak to the potential medical benefits of trepanation.

An article published on the Beckley Foundation's website says that “the brain's productivity depends on essentially three factors: blood flow, mobility of cerebrospinal fluid (CSF ...), and the flexibility of the skull.”

Blood brings glucose and oxygen to the brain, among other things; these two metabolites allow the brain to function and survive.

Cerebrospinal fluid provides cushioning to the brain and provides some basic immunological functions, such as waste removal.

Moskalenko's technique allows researchers to track changes in these three parameters simultaneously, and his research posits that if the skull's flexibility is diminished, cerebrospinal fluid mobility is decreased, and the brain's functionality is decreased as a result.

In order to back up these findings, he has also “shown that senile dementia and other age-related mental disorders of a vascular nature are more closely linked to a drop in CSF mobility than a decrease of blood flow,” which

corroborates the idea that CSF mobility is a factor in mental acuity. Moskalenko's research is one of the only studies which has focused

on factors and conclusions related specifically to trepanation; Moskalenko focused on those who have had a craniotomy rather than a

full-on trepanation. Using his measurement techniques, Moskalenko determined that trepanation caused the pulse stroke volume of the skull, or

the amount of blood entering the skull after every heart-beat, to increase 8–10 percent on average.

This increase means

that more oxygen and more metabolites enter the brain, functionally increasing the brain's processing power. While an increase in brain blood flow might seem frightening to some, Moskalenko's research assures us that this increase is within the safe range of cerebral circulation.

It appears as if pressure reductions in the brain (as a result of a more flexible skull) may result in some actual physiological effects.

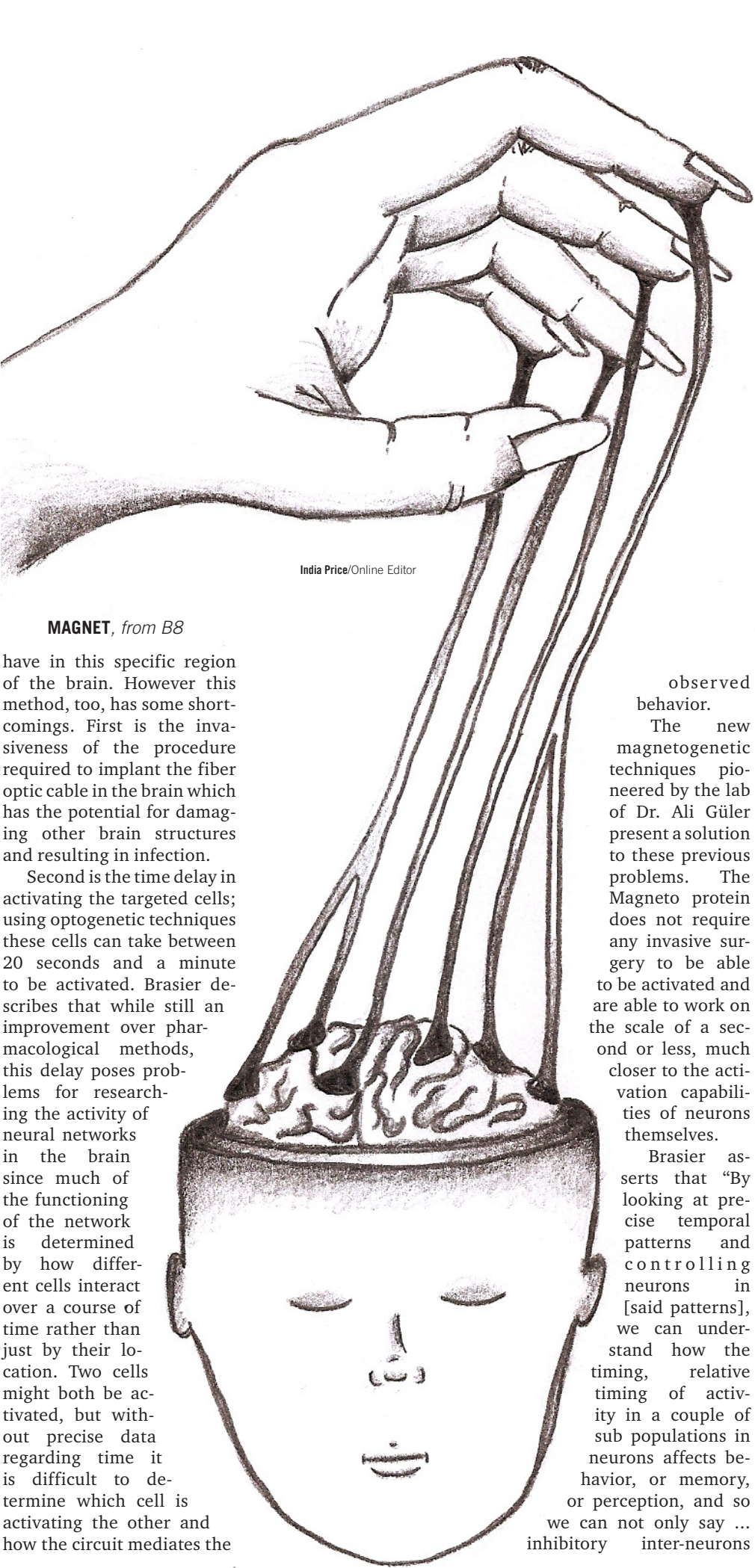
Trepanation has a rather gruesome history, and perhaps an equally bright future. It does enter some dangerous territory, however, as a medical procedure performed solely for the purpose of human augmentation. In professional sports, steroid usage is often regarded with an “everyone's doing it” mentality. In academics, Adderall has a reputation for being misused among hardcore students.

Medication or operation just for the sake of “being better,” and not as a specific treatment, gets into some shady territory. When you start augmenting humanity with medicine, you're effectively “treating” the default human condition. And once we start viewing natural human features as something that need to be remedied, we start voyaging into some very dangerous ethical territory with no clean-cut resolution.



Jarel Grant/Assistant Art Editor

“Magneto” protein activates neural pathways, non-invasively controls behavior from a distance using magnetic fields



MAGNET, from B8

have in this specific region of the brain. However this method, too, has some shortcomings. First is the invasiveness of the procedure required to implant the fiber optic cable in the brain which has the potential for damaging other brain structures and resulting in infection.

Second is the time delay in activating the targeted cells; using optogenetic techniques these cells can take between 20 seconds and a minute to be activated. Brasier describes that while still an improvement over pharmacological methods, this delay poses problems for researching the activity of neural networks in the brain since much of the functioning of the network is determined by how different cells interact over a course of time rather than just by their location. Two cells might both be activated, but without precise data regarding time it is difficult to determine which cell is activating the other and how the circuit mediates the

observed behavior. The new magnetogenetic techniques pioneered by the lab of Dr. Ali Güler present a solution to these previous problems. The Magneto protein does not require any invasive surgery to be able to be activated and are able to work on the scale of a second or less, much closer to the activation capabilities of neurons themselves. Brasier asserts that “By looking at precise temporal patterns and controlling neurons in [said patterns], we can understand how the timing, relative timing of activity in a couple of sub populations in neurons affects behavior, or memory, or perception, and so we can not only say ... inhibitory inter-neurons

that express this gene, what do they do for behavior when I turn them all off/on’ now I can say what happens when I turn them off for one second, off for two seconds—introduce a pattern of activity ... get at how the timing of activity relates to behaviors and perceptions and so on.”

This means that we have an increased ability to test specific patterns more similar to neurons’ natural firing rates. In Brasier’s words: “[We are] getting much closer to the time scales that neurons actually communicate with each other; this allows the ability to have more precise control over the pattern of activity.

Rather than blasting the neurons high or turning them all the way off, you can have a finer control over the finer temporal patterns these neurons are having.”

Electrical stimulation gave researchers specificity in location; pharmacological methods gave researchers specificity in cell type; optogenetic techniques blended these together for greater control; and now magento-genetics is giving scientists the ability to control all of these other factors as well as controlling the specific timing of these events.

So what do these techniques mean for our understanding of the brain or our reality?

Will we soon be controlled by our magnet wielding overlords?

When asked if these if sensationalized fears that this might be the grounds for “mind-control,” Brasier responded, “Yeah, I think that would be possible in principle. Even now you could find a spot where you could implant things and make my arm twitch, and, for a couple hundred dollars, you can get a little kit where you can do a little surgery on a roach, and you can have a radio controlled roach,” Brasier said.

“Even more complicated things people have done to influence mouse behavior. In some ways, [humans are] even easier to control than mice because our brains are bigger, and the targets are bigger. Technically, I think

it’s quite possible to at least control movement; we understand a fair amount about the area of the brain that move the arms around, move the legs around and so on, and also on the areas that first receive sound and visual perceptions.”

We don’t have as good a map as of yet about what comes between sensation and perception; it may be possible in the next few decades to be able to alter somebody’s, give somebody a very particular perception; there’s one paper that was published three years ago, where they found a way to [alter perception] with optogenetics.

They called it implanting a memory; they activated in a mouse the neurons which were previously active in a red room, and then give the mouse an electric shock; the mouse behaved as they were shocked in the red room; and so we can maybe put in false memories, manipulate people’s memories, and so that’s something that is very scary to think about in a lot of ways.”

“Even the experiment used to pioneer the Magneto protein provided grounds for this impressive and intimidating control over perception and thought.”

Brasier comments that “They turn on the brain’s reward center when the animal is in a green room, animals develop a strong preference to going into the green room.

“Already with the very first report about this protein, they’re already essentially doing a thought-implantation-like-thing where they’re impacting the way an animal feels about a specific area.”

However, within the context of previous methods before magnetogenetics, this power does not seem at all that surprising. Psychopharmacological methods have been modulating and altering perception from even before we understood the methods. Examples range from prescription anti-psychotics to your morning coffee. These all alter in different ways how we experience our reality by introducing an outside factor

and inducing a change at the neural level. Optogenetics and magenetogenetics now serve as an evolution in the precision and accuracy of these methods so that potentially these desired effects are achieved without any of the side effects that come along with the extremely complicated system that is the mammalian brain.

The dopamine system in one part of the brain helps to regulate muscle movement and in another regulates the reward and attention systems of the brain.

A malfunction in the first yields Parkinson’s Disease and in the latter yields Schizophrenia.

Many of the psychopharmacological methods for treating these diseases yield side effects by activating or deactivating the other system.

Electrical implants have been devised for Parkinson’s patients to activate these specific cells in this specific area, but that method requires an invasive surgery that opens up the patient to all sorts of complications and potential damage.

Magnetogenetics seems to afford an opportunity to negate most, if not all, of these potential side-effects by being able to specifically target a distinct sub-population of neurons in a specific region of the brain without the need for invasive surgery.

This opens up not only a larger realm of study with human subjects, it also may allow for more rigorous applications in other realms.

Perhaps magnetogenetics may have implications for future treatments to deep-brain disorders. As we become increasingly able to determine the functions of circuits, we may be getting increasingly close to being able to control them.

While this discovery may be leading us down the path of “mind-control,” it is a path we began with the very inception of the field of neuroscience and this discovery is merely providing enhanced precision and safety to the methods of “mind-control” that are currently and readily being used by researchers and physicians.



UAA Tennis Standings

Men's			Women's		
Univ.	W	L	Univ.	W	L
Chicago	13	3	Emory	18	3
Emory	13	3	CWRU	12	4
Wash. U.	11	3	NYU	6	2
CMU	14	5	CMU	14	5
CWRU	15	6	Chicago	9	4
Brandeis	8	4	Wash. U.	11	7
Rochester	6	7	Brandeis	4	5
NYU	3	6	Rochester	3	6

Upcoming Events

Men's Track & Field Westminster Invitational at Westminster College April 16, 10 a.m.	Men's Golf Fred Kravets Invitational at Rochester, N.Y. April 6, 10 a.m.	Men's Tennis vs. TBA at Altamonte Springs, FL April 21–23
Women's Track & Field Westminster Invitational at Westminster College April 16, 10 a.m.	Women's Golf St. Vincent Invitational at Latrobe, PA April 21, 11 a.m.	Women's Tennis vs. TBA at Altamonte Springs, FL April 22–24



Courtesy of CMU Athletics
Senior Abbey Hamstra prepares to hit a backhand swing against the University of Mary Washington on April 10.



Courtesy of CMU Athletics
Junior George Qian focuses on making a putt during the Carnegie Mellon Invitational on Wednesday, April 6.

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 **Stanford**

Tartan golf team takes first at Hershey Cup competition

IAN TANAYA
Assistant Sports Editor

On April 3 and April 4, the Carnegie Mellon men's golf team competed at the 15-team Hershey Cup. The Tartans finished with a team score of 624 (309–315) to finish first. Allegheny College finished in second place after taking 11 strokes more than Carnegie Mellon. The University of Rochester finished 16 strokes back.

Junior Brad Jennette was crowned the top individual medalist after finishing the 36-hole tournament with a five-over-par 147 (72–75) to win the event. Junior George Qian finished seven strokes behind Jennette and tied for fourth with a 155 stroke showing (77–78). Junior Jordan Klodowski carded rounds of 80 and 79 to finish with a 159 followed by sophomore Nikhil Mohan who fired a 36-hole score of 163 (80–83). Sophomore Adrian Del Bosque rounded out the Tartans' top five golfers with a 174 (88–86). Junior Alexander Pomerantz entered the tournament as an individual, finishing with a 170 mark (88–82).

On April 6, the Tartans hosted the annual Carnegie Mellon Spring Invitational. The Tartans carded a 304 to place first out of six teams.

Qian earned top individual medalist honors after carding a four-over-par 74 during the 18-hole event. Del Bosque tied a season-best round with a 75. Jennette scored 77 while Mohan shot a 78. Klodowski rounded out the top five with an 88.

The Tartans also entered a B team into the invitational, which finished in second place with a score of 311. Junior Ryan Karbowicz led the B squad with a 75.

Junior Alex Woodward earned a 78. Pomerantz and first-year Patrick Tan both earned 79 while first-year Nicholas Moreno ended with an 85.

Three other individuals competed for the Tartans. First-year Adrian Berger carded an 84. First-year Austin Lin shot a 90. Sophomore John Shlonsky finished with a 93.



Courtesy of CMU Athletics
Tartan golf players celebrate the win at the Hershey Cup meet on April 4.

Sports

Tartan tennis rolls over the competition week by week

ALEX WOOD
Sports Editor

The Carnegie Mellon men's tennis team closed off a weekend of play with a tight battle against 18th-ranked Kenyon College at home on the evening of Sunday April 3, battling to continue to show why they deserve to be ranked as one of the premier teams in Division III.

The Tartans kept the competition close after some struggles in doubles play. The Tartans won 5-4, and they continue to establish themselves as a premier team in Division III.

The men came out firing in doubles play, as two of three duos went up by a game in the first few minutes of play. After four or five games of play, Carnegie continued to pull out in front. With a 2-2 split in sophomore Jeffrey Chen and junior Kenny Zheng's play looking like the tight competition, the men looked to be in good position.

Chen and Zheng took advantage of the momentum of the break to give Carnegie Mellon its first point, however the other doubles teams fell 6-8, giving Kenyon a 2-1 lead.

With the doubles competitions wrapped up, play transitioned to singles matchups. In the top singles game, the Tartan's senior player Abhishek Alla fell behind early, losing an early break and letting the first set get away from him. Dropping the set 1-6, Alla had only game going into the second set.

However, in a day filled with midgame turnarounds, Alla poured it on early, jumping out to a 5-1 lead before giving up a second game. This still allowed Alla to take the set 6-2 to bring the match to the 3rd set.

In the Tartan's second singles match, first-year player Daniel Levine challenged for another singles win. Unlike Alla, Levine wasn't looking to leave things up to suspense. He took control of the first set midway through with a break, and extended the success with a win in both sets. Levine's two

set singles victory was accompanied by a 6-2, 6-1 win by first-year player Chaz Downing, and another singles loss, to tie the Tartans up with Kenyon, 3-3. The Tartans showed their depth in the final stage, leading in the sixth singles match and showing their competitiveness at all levels before ultimately taking the victory.

The Carnegie Mellon tennis teams took to the courts on Saturday to square off against the Blue Jays of regional rival Johns Hopkins University. The men's team won a hard-fought match by a slim margin, 5-4, and the women's team continued their domination by winning 8-1. This victory brings the Tartans to a 13-5 record.

The men's team scored the points that mattered in doubles play. The duo of seniors Alla and Yuvraj Kumar scored the first point of the day for the Tartans, winning third doubles by a score of 9-7. The less experienced first-year pair of Vayum Arora and Levine dropped a barn burner of a set in first doubles, but Chen and Zheng came in clutch for the Tartans, giving their team a 2-1 lead going into singles play.

The Blue Jays would not be silenced, however. They took second and first singles to take a 3-2 lead in the favor of Johns Hopkins, and suddenly the Tartan men were on the back foot.

Zheng scored another important point for the Tartans in fourth singles, winning 6-0, 7-5. Arora clawed the lead from the clutches of the Blue

Jays in fifth singles, winning 6-3, 7-5.

Downing was the player of the day, however. Downing made a come from behind victory in third singles, forcing a second set tiebreaker and scoring five unanswered points to take the set. Downing also scored three straight points in the third set to take the match win, 6-7 (9-11), 7-6 (8-6), 6-4.

The 11th-ranked women's tennis team had a much easier road to victory. They started the day off right by sweeping doubles play against their 12th-ranked opponents. Senior Brooke Tsu and first-year Jamie Vizelman scored the first point of the day for the Tartans, winning 8-4. The pair of sophomore Cori Sidell and first-year Minami Makino won 9-7 against a higher-ranked duo, while senior Abbey Hamstra and junior Nicholle Torres completed the sweep of doubles by winning 9-8 (7-2).

Sidell was the first to finish singles play in the third position, winning 6-1, 6-2. First-year Marina Selenica and Makino also scored victories in singles play. Selenica won 6-0, 6-4 in sixth singles while Makino took fifth singles with a score of 4-6, 6-4, 1-0 (10-7). Tsu stepped up against the second best player in the region, and won 2-6, 6-4, 6-3 in first singles. Torres closed out the day in the second position, winning 6-3, 7-6 (7-4).

The Tartans will now move on to the UAA Championships, held in Altamonte Springs, Florida on April 21-23.



Joshua Brown/SciTech Editor
Junior Kenny Zheng leaps into the air to return a volley against Kenyon.

Villanova takes D-1 National Championship at the buzzer



Courtesy of James W. Neal via Flickr Creative Commons
UNC's Marcus Paige jumps for a last-second tying shot against Villanova.

JORDAN SAFER
Staffwriter

Last Monday night in Houston, Texas, University of North Carolina (UNC) and Villanova University put on a show while battling for the NCAA championship. In classic style, the Villanova Wildcats emerged victorious over the opposing Tar Heels in an end-to-end effort.

Villanova's 77-74 win gives them their second national championship in program history, and their first since a 1985 win over Georgetown. It also ends a six-tournament streak of Villanova not making it through the second round.

Throughout the tournament run, the Wildcats looked dominant, taking huge wins over top opponents on their climb up the bracket. The Wildcats had an especially notable win over the top seeded Kansas Jayhawks in the Elite Eight, beating out a favorite on the way to showing which team was the real team to beat.

UNC returns empty handed, with a concern about potential NCAA sanctions for academic fraud. With potential sanctions looming, UNC came up a bit short of getting a national championship win before their window of opportunity will potentially be closed by penalties. UNC is currently under investigation for providing improper help to struggling student athletes through special independent study style courses. Given their potential predicament, UNC put a big fight in the matchup.

The final 10 seconds highlighted the intensity of the

game, with Villanova leading 74-71 going into the final sequence. UNC pressed the ball up the court, and UNC senior guard Marcus Paige contorted his body to make the game tying three-pointer in the face of an oncoming defender. With only four seconds on the clock, Villanova made their argument for why they were the team to beat, racing up the court to try for a game winner.

With a second left, senior guard Ryan Arcidiacono tossed the ball back to junior forward Kris Jenkins, for a chance at the game. Jenkins caught the ball in motion to shoot, and dropped a game winning three-pointer in the net as time expired. The lightning response by Villanova showed a team that had a broad range of weapons at their disposal in the game. The game looked to be a back and forth from the gun, with Villanova winning the ball to start, only to turn it over and give UNC the chance to take the game's first points. The game score was tied nine times with constant lead changes, in a true championship battle.

Ten minutes into the first half, Villanova looked like they were building a lead, only to watch a five-point lead turn into a four-point deficit. A clutch three-pointer by UNC sophomore guard Joel Berry II saw to that. By the end of the half, UNC looked like the team that had it figured out, holding off a Villanova counterattack to go into the locker room up five.

It took no time to get back to even for the Wildcats, but

by six minutes into the second half they did it. Villanova freshman guard Mikal Bridges took a pass by Arcidiacono and slammed it through the basket to tie things back up.

Going off Bridges' dunk, Villanova looked to build a lead, and succeeded in working their way up by 10 points with a little over five minutes left in regulation. A smooth three-point shot by UNC's Paige help energize their unit in a fight to close back up in the final minutes.

All of this battling built up to the clock racing finish the made the championship game one to be remembered. The fans showed the seismic level of the swing, with their responses to the shots. With Paige's game tying shot at four seconds, the UNC crowd roared, as a tide of light blue jumped up in response to the shot.

The audience, it seemed was largely for UNC, and a proud Michael Jordan with his arms raised up seemed emblematic of the success of UNC's comeback.

But Villanova was not to be outdone. Jenkins' response shot shattered the UNC picture with a Villanova uproar. With the final seconds ticking down, Jenkins took flight from well beyond the three-point line and sent his Hail Mary to the basket.

Millions held their breath, the world slowed to a grinding halt, and then the only sound was the ball falling cleanly through the net. As Villanova re-broke the tie with the UNC basketball powerhouse, the dark blue jumped out.

With a sudden flip-flop, the stadium seemingly transformed as the Villanova crowd erupted. Jenkins and the rest of the Villanova squad exploded in celebration with the fans and the Wildcats rode off into the history books.

As far as NCAA championship games go, this is one to be remembered for a long time. Both star-studded sides fought an unforgettable back and forth battle right up to the finish.

FIFA leaders continue to be berated for corrupt practices

IAN TANAYA
Assistant Sports Editor

The International Federation of Association Football (FIFA) is no stranger to scandals, but the Panama Papers scandal detailing corruption among some of the wealthiest leaders and corporations has brought further scrutiny to the already tarnished organization.

On May 27, 2015, a crack-down began as 14 FIFA officials and corporate executives were arrested in Zurich based on indictments from the U.S. Department of Justice, the Federal Bureau of Investigation (FBI), and the Internal Revenue Service (IRS). Among the charges, prosecutors alleged that at least one vote for the hosts of the 2010 FIFA World Cup had been sold to the highest bidder: in this case, prosecutors alleged that Jack Warner, a committee member from Trinidad and Tobago, was offered \$1 million from Morocco's bid committee before he accepted a \$10 million payout from South Africa, the eventual host of the World Cup.

"These individuals and organizations engaged in bribery to decide who would televise games, where the games would be held, and who would run the organization overseeing organized soccer worldwide," said U.S. Attorney General Loretta Lynch in a statement to the media

following the announcement of the arrests. Lynch further compared the investigation into the FIFA officials to those of Mafia members in Italy, citing their usage of the American banking system as part of their schemes.

On June 2, then-FIFA president Sepp Blatter announced that he would resign his position once the FIFA congress decided on a successor. After winning a fifth term on May 29, the growing calls for change amid the fallout from the May 27 arrests seemed to finally win out. "FIFA needs a profound overhaul," Blatter said during his announcement of his resignation. "While I have a mandate from the membership of FIFA, I do not feel that I have a mandate from the entire world of football — the fans, the players, the clubs, the people who live, breathe and love football as much as we all do at FIFA."

On Feb. 26, 2016, Swiss executive Gianni Infantino was elected president of FIFA after gaining a simple majority on the second ballot. "We will restore the image of FIFA and the respect of FIFA, and everyone in the world will applaud us," Infantino said during his acceptance speech at the convention hall in Zurich. "We have to be proud of what we will do together. I want to work with all of you in order to restore and rebuild a new era in FIFA, a new era where we can again put football in

the center of the stage." During the same meeting of FIFA's 207 eligible members, a number of reforms were passed.

These changes included new term limits for the FIFA president, council members, and committee members, a new 36-member FIFA Council to replace the 24-member executive committee which previously determined the World Cup host, an independent compliance committee to monitor the council, and the separation of power between political decision-making and business operations. It seemed as if Infantino's reign as the new head of FIFA might be able to cleanse the organization of its shady reputation.

Yet, six weeks after his reign started, Infantino and others were named in the dump of 11 million documents detailing corruption. During Infantino's time as legal counsel for the Union of European Football Associations (UEFA), the UEFA sold television broadcasting rights to Full Play Group, rights which were then resold at a considerable margin.

Infantino is not the only one under scrutiny. On Monday, FIFA's independent ethics committee confirmed that one of its ethics lawyers was under investigation for a business relationship discovered by the Panama Papers. The leak apparently detailed Juan Pedro Damiani and his law firm working for seven offshore

companies linked to money laundering.

As if the continued questions of corruption among FIFA officials haven't been bad enough, some of soccer's biggest stars are also under fire. The biggest name identified by the leak was FC Barcelona forward Lionel Messi. Charges of how a company owned by

Messi and his father called Mega Star Enterprises was used to avoid paying taxes on player's image rights deals bring home just how much corruption there is in the world of international competition.

Though soccer will persist as the most heavily watched sport worldwide, officials are

no longer afraid of the threat of expulsion from international competition as they pursue FIFA.

Though Infantino has denied any wrongdoing and pledged to fight corruption within FIFA even harder, only time will tell if FIFA can be cleansed and have its reputation restored.



Courtesy of Gabriel Smith via Flickr Creative Commons
The World Cup stadium in Manaus, Honduras sits empty after a long night of soccer during the 2014 World Cup.

Carnival Preview Edition
04.11.16 Volume 110, Issue 23

pillbox

The Tartan's art & culture magazine



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Alumni Carnival Calendar • C16 & C17



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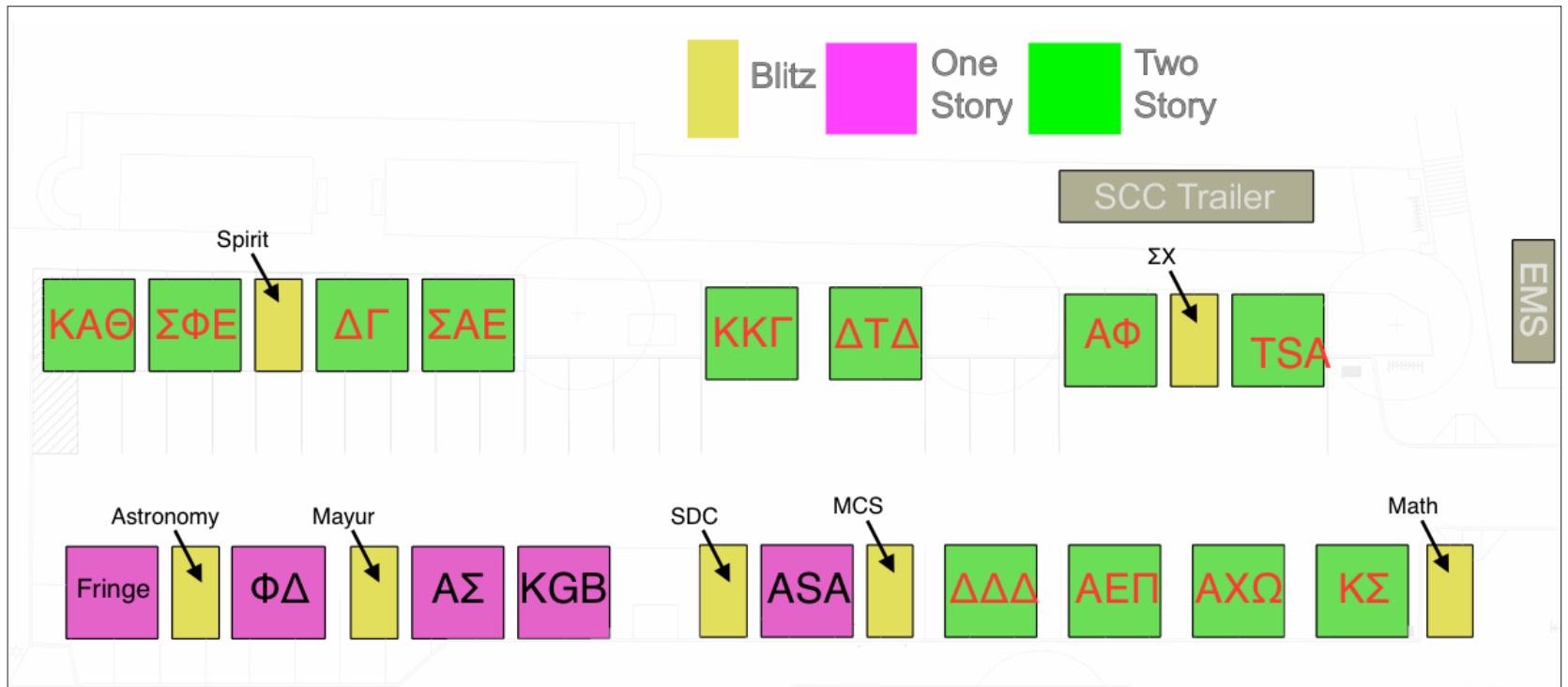


Photo Courtesy of Spring Carnival Committee

Fraternity

Alpha Epsilon Pi: Dungeons & Dragons
Alpha Sigma: Duck Hunt
Delta Tau Delta: Luigi's Mansion
Kappa Sigma: Mario Kart
Phi Delta Theta: Minecraft
Sigma Alpha Epsilon: Four Square
Sigma Phi Epsilon: Legends of the Hidden Temples

Sorority

Alpha Phi: Mouse Trap
Alpha Chi Omega: Clue
Delta Delta Delta: Candy Land
Delta Gamma: Where in the World is Carmen Sandiego?
Kappa Alpha Theta: Oregon Trail
Kappa Kappa Gamma: Mario Party

Blitz

Astronomy Club: Space Cadet Pinball
Math Club: Mathematical Puzzles
Mayur: The Game of Life
Mellon College of Science: Pac-Man
Sigma Chi: Angry Birds
SPiRiT: Journey
Student Dormitory Council: Battleship

Independent

Alpha Phi Omega: Cooking Mama
Asian Students Association: Kirby: Nightmare in Dreamland
Fringe: LEGO®
KGB: Octodad
Taiwanese Student Association: Skyrim

100 Years Ago: 1916

From The Editorial Board

The Carnegie Spirit

We stand appalled before the distress and suffering in the world today. Millions of helpless men, women, and children are destitute and homeless. Their very lives depend upon the bounty of our country. Our duty in the matter is plain. We must help, and help again. None of us can do much, but if each will make some real sacrifice, the total of our gifts will do much to save those who cannot save themselves.

For years Mr. Carnegie has devoted his wealth and influence to the service of mankind. Our Institute of Technology is only one of his many achievements in helping others to the realization of a fuller life. All of us gladly admit our obligation to him for the opportunity given for growth and self-development. We must also admit our increased responsibility to contribute our share to the service of others.

To make our contribution a worthy part of the great offering our country is making, and must continue to make, to save the lives of the unhappy millions of the war stricken countries, we must have the spirit of hearty cooperation. Here, indeed, the Carnegie Spirit find its fullest and highest expression. Can we not prove to ourselves and show to our founder that the best and truest expression of the Carnegie Spirit is found in the words, Service and Good-will? Let us convince Mr. Carnegie that our hearts, too, are in the work to which he has devoted so much of his life.

Value of the Editorial

From the articles appearing under this heading the entire character of the paper may be judged. The policies, the attitude toward current affairs, the state of progressiveness, and even to the general quality of news on other pages may be determined from the editorial page.

We have strived through our editorial columns to promote the things that are of vital interest to the school and to the individual student. Such suggestions as we may offer or such plans as we may advance are, however, mere words covering so much space, unless the students take an active interest in the editorials and cooperate with the authors.

Some of you read “The Tartan” as if it is a duty forced upon you, but do you read it with the idea in mind that is the “voice of the school” and is promoting policies which affect you personally? Our aim is to have every man interested in the school in general and in some phase of activity in particular.

If something is advocated in our columns and you see no one grasping at its aim, get after it yourself. In case someone else is in the field on the same errand, join hands and put it through. That is what our sister publication calls “constructive” school spirit.

Volume 10, Issue 15

Militarism or Democracy?

The battle now raging comes as the direct result of the non-Christian lives followed by the peoples of the warring nations. It is primarily a conflict of systems of governments — not of crowned heads; it is fundamentally a battle of peoples. A hundred British cabinets may fall, yet the strife in defense of English rights goes on. A hundred Kaisers, Kings, or Emperors may be laid to dust, but their passing means nothing for the interests of peace. Peace propagandas, such as the Ford Peace Party, will be directed with no visible result — at the base of all lies our Christian teaching unheeded.

Two irreconcilable systems of government have met in conflict and they must fight to the surrender or extermination of either party. Either the German military system will rule Europe or democracy and individual peace will be the ruler. There is no possible compromise. It will continue until either one side or the other is defeated.

Then, and only then, beyond the shriek of strife and the toll of blood, will the welcome rainbow of enduring peace be seen — a long peace after a frightful war.

Volume 10, Issue 12

Frederick's

THE HOUSE OF SERVICE

ALL VICTOR RECORDS, EVERY DAY

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Play them on



Demonstrations
at any time

Ad that ran in the March 1, 1916 issue

Be There

Tomorrow Night

TECH RELIEF
BENEFIT

Schenley Theatre

Eight O'clock

The Drama School will present “Henri Durot—
Master Spy,” by Kenneth Sawyer Goodman and Ben
Hecht; The Glee and Mandolin Clubs will render some
selections. A special orchestra from the Design School
will be in the orchestra pit. The young ladies from the
Margaret Morrison and Design schools will appear in
some beautiful dances; and there will be a reel of film
direct from Belgium showing the devastation and war
in that country.

A notice run in the February 23, 1916 issue



"Training the Plebe" from the September 27, 1916 issue

MMCS News: Wm. Faversham Versus The Drama League

It may be of interest to those dramatically inclined to know just where this talented actor stands in regard to this subject since he and Mrs. Faversham (Julie Opp) publicly confess having gladly stood sponsors for this movement at its inception.

The Pittsburgh centre of The Drama League, tendered to these distinguished guests a reception and luncheon in the rose room of the Fort Pitt not long ago, upon which occasion Mr. Faversham made his position, in regard to this organization, very plain.

The steely glitter of his eyes betrayed the feeling beneath the half quizzical recital of "The Theatre of the Imagination in the year 3000" — when the audience goes in a flying machine to the Theatre; where, on a bare stage, a man in dress clothes encircled by a spotlight awaits them.

The play is "Hamlet"—After some time the actor observes that the auditorium is filled and calls out — "I am ready" — the said audience grasps levers attached to the seats beneath, then closes its eyes and the current is turned on. After a certain time the current is turned off — there

is a slow return to normal consciousness with this remark — "Fine play that — this Shakespeare was a great writer in his time; if only actors had known how to play him then!"

Evidently Mr. Faversham does not believe in leaving too much to the imagination and sees danger in the present tendency in certain quarters — also he resents the "Pink Tea attitude" into which, he asserts, The Drama League has fallen — publicly proclaims his lack of sympathy with the social side of it, where it in any way tends to exploit the actor on the wrong side of the footlights and invade his private domain as to his tastes and habits.

He deplores the curiosity which leads people to be interested in whether or not the actor eats spaghetti and says frankly that "to know an actor too well off the stage is to take the gilt off the gingerbread — to destroy illusion."

Mrs. Faversham felt called upon to "edit" (as she put it) her husband's remarks by saying that if he seemed severe it was only because of his earnest interest in the future of The Drama League and

their disappointment in its failure to meet their expectations as they had both enthusiastically given time and effort to the movement in the hope that it would bring to the theatre the support of those who would demand only the best.

They had hoped the League might have considerable influence in the way of educating managers to the higher needs of the public and the most hopeful sign on the present occasion was the attitude of the toastmaster, when he said that his only interest in the League was the hope that it might bring to the knowledge of the non-playgoer, who stayed away because he did not know what to choose, the right plays and eventually give them a right price — a gallery of dollar seats — then the League will have justified its existence.

Unquestionably this, luncheon gave also food for thought — one got the actor's point of view — very clearly, and it seems a most rational one, worth while "passing on" to those who consider the future of the stage seriously.

Volume 10, Issue 16

The Folks at Home—You Know Them—Keep Them Posted on Tech Life



That kid brother of yours —the up- and - comingest youngster in the home town —wants to know what you and your doings are like—the 1917 Thistle will tell him all about it.



The old man—pardon us, the revered parent—wants to see what the school and the campus and the dorms look like—and the crowd his boy runs with—in the 1917 Thistle.



That girl—so busy those spring days with the men who stayed home—will think of you and welcome your return more when she sees your name and your picture in the 1917 Thistle.

Order Them a Thistle Now—Send a Gift Notice—They'll Thank You Later

Ad for the Thistle yearbook run in the December 13, 1916 issue

50 Years Ago: 1966

Becky Brown Reigns As Queen Over Last Saturday's 1964 Military Ball

Rebecca Brown, a recent transfer student from Muskingum College in New Concord, Ohio (John Glenn's home town), was named Queen of last Saturday evening's 1964 Military Ball.

The crowning of the queen was officiated at about 11:00 p.m. by Colonel Gallagher. Last year's Military Ball Queen, Eileen Maclair, was first called to the stage in The Skibo Ballroom, after which each of the queen aspirants was called. Coming to the stage, each passed through a formation of drawn swords. Miss Maclair then proceeded to give a brief talk on each of them.

After this, envelopes were passed to Colonel Gallagher, who proceeded to announce the queen candidates. As each was announced, she walked to the front of the stage to accept a bouquet of flowers. Becky's official title was Honorary Regimental Commander. At the announcement of the Queen, Becky stepped forward to receive a bouquet and a small replica of the trophy received by her representative fraternity, Sigma Nu. Becky's pin-mate, Jim Black, a Sigma Nu, accepted the fraternity trophy. After the crowning of the queen, a Scabbard and Blade member, Sieve Blue, and Becky, along with last year's queen, Eileen, and Mike

Ingram, led those at the ball in a Grand March. They were followed by the Queen's runners-up.

Following the Grand March, the two leading couples began the Honorary Regimental Commander. The ballroom of Skibo had been appropriately decorated for the evening's affair with streamers arranged uniformly across the ceiling, and multi-colored balloons which were released from large clear-plastic bags at various times during the evening. For those with "rhythm in their blood," up-tempo dance music was provided by a local combo, the Silhouettes, along with music by Brad Hunt and his Orchestra.

Each couple at the dance received a complimentary color photograph by the Midwest Photo Company. Becky Brown asked that this newspaper convey her sincere appreciation to those who gave her their support. She wanted them to know that she highly respects the honor of the title, and that being chosen for it was a tremendous thrill for her. A junior social studies major from Butler, Pennsylvania, Queen Becky Brown is a Kappa Kappa Gamma sorority member.

New Machines At Morewood

Automatic milk dispensers and beverage coolers have been installed in the Morewood Garden's cafeteria. Though residents complain that the new milk machines limit milk capacity in their glasses, the machines are actually helpful innovations.

Unlike the hand-operated lever machines, these are automatic push button types which include a tray rack. The \$900 machines hold two five gallon cans and consist of a refrigerator and pressure mechanism.

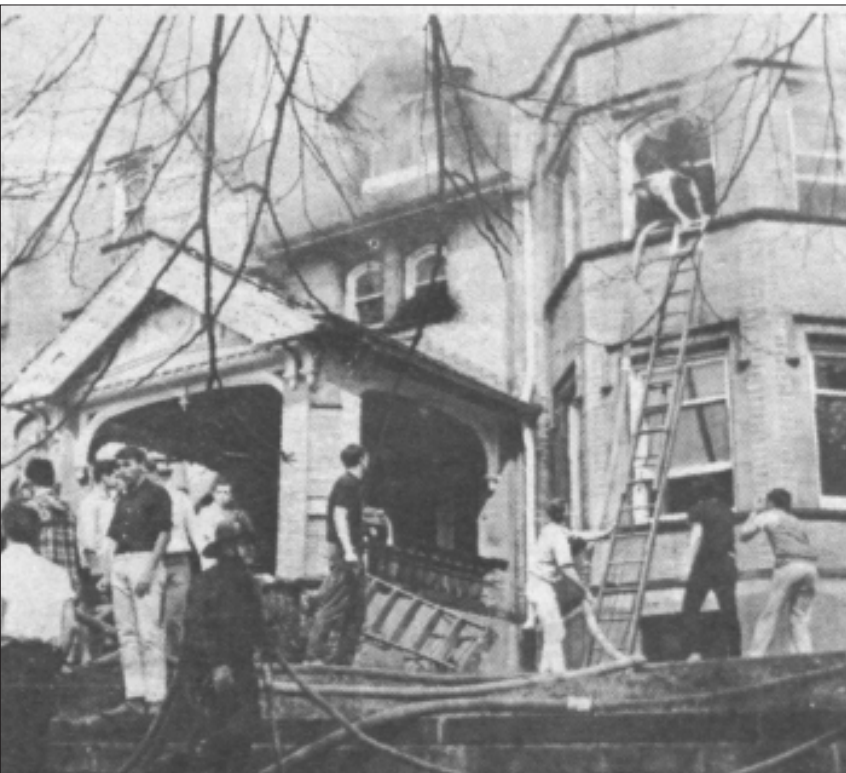
The lemonade-orange beverage coolers provide colder drinks than the previously distributed cartons of juice. Girls appreciate the additional refrigeration but complain that there are no longer any cartons of juice to take back to their rooms.

Mr. Helm, Director of Food Service, explained that, "as the number of girls increases, major renovations will be made in the Morewood Garden's kitchen-cafeteria facilities."

Vol. 60, Issue 20

Vol. 10, Issue 12

Students help firemen with a hose in 1966.



File photo

Guests greet cadets and dates for Military Ball in 1966.



File photo





Main administration building in 1966 takes form.

File photo

Ketchup Makers

(N.B. This is the first in a series of articles on the diverse departments of Carnegie Tech.)

Carnegie Tech's Department of Chemical Engineering seems to be characterized by courses whose names are deceptively complex and confusing. The entering freshman who intends to major in "Chem E" takes the regular Engineering and Science curriculum of chemistry, physics, math, English composition, and western civilization. As a sophomore, however, he plunges into Process Principles I and II and Thermodynamics, titles which wreak confusion in the heart of the poor Maggie Murph. A knowledgeable "Chem E" confesses, however, the Process Principles consists of bubbling ammonia through water to discover that you have produces ammonia water!

The purpose of all this bubbling and distillation is to discover how much energy it takes, and this seems to set the keyword for the whole department - efficiency and economy in the process of chemical research. Thermodynamics is a fancy name for pumping fluids through pipes (on paper) to discover the principle of conversation of energy. They have found for instance, that the water in the middle of the pipe goes much faster than that around the edges, and after a certain speed is attained, all the water will rush around with mad energy in all direction in the pipe (that's not conserving much energy).

As a junior, the "Chem E" takes the impressive sounding course "Heat, Mass and Momentum Transfer," which was called "Unit Operations" before. Neither name, adequately describes the delightful content of the course; Momentum Transfer in two railroad trains of fluids, going at different speeds in the same direction on two parallel tracks. When a little fluid jumps from the faster train to the slower, the slower train speeds up. The "Chem Es" figure out exactly

how much it speeds up.

Seniors take a special match course and an eight hour per week lab, where they actually begin some of these processes; it is called Unit Operations Lab and here they work on new designs for machinery, such as distillation cats to prepare chemicals. They stir different fluids, comparing the amount of work it takes the stir them with how viscous they are.

There are even some that get thicker as you stir (egg whites do this) or get thinner; they have wonderful words like "thixotropic" to apply to them and how does one find a preservative which will not affect the taste of ketchup? A "Chem E" has more fun in tests than almost any other student; a recent heat transfer quiz stated simply; "Will a hot cup of coffee cool faster if cream is added at once and then allowed to cool, or should the cooling process be first, with the cream added later?" That's knowledge for living!

Once in industry, seniors branch out; not only do they design reactors, evaporators, and distillation columns, for the preparation of chemical substances — like all the different grades of gasoline that Sunoco has (190, 200, 210, etc.) for different purposes, but they study how to best shove toothpaste into a pipe this is quite a problem in industry, believe it or not, and they work on the chemical structures of new synthetic fibers.

Most "Chem E's" don't like "cookbook" recipes; "stir in a cup of hydrocarbons" has little appeal to them, and they would prefer more concentration on engineering courses in the department. They are not permitted until their senior year to really specialize and do independent research. The department, however, is recognized as one of the top in the country.

Volume 60, Issue 20

Vol. 607
pillbox 04.11.16

ARTISTIC DIRECTOR TERENCE S. ORR
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25 Years Ago: 1991-1992

Police bust CMU students in drug bust

After an intricate sting operation, Pittsburgh Police have arrested four CMU students on drug possession charges. The students were arrested at their house in Shadyside on Thursday evening, January 24.

Two other occupants of the house, who were not home at the time of the arrest, turned themselves in the following day.

The operation began in Colorado when a Denver postal worker notified police that a suspicious package had been posted for mailing to Pittsburgh.

Authorities found one pound of hallucinogenic mushrooms in the package and subsequently asked Pittsburgh police to investigate its intended destination.

After obtaining a search warrant, a Pittsburgh police officer, dressed as a UPS delivery person, delivered the package to the Shadyside address. The intended recipient, his girlfriend, and another man were home at the time.

When the package was opened, a planted “beeper” signaled and 10 Pittsburgh police officers dressed in bullet-proof vests and armed with a battering ram entered the five-bedroom house.

During the ensuing search, the fourth student returned home and was subsequently placed under arrest. The students were taken to the North Hills station at 6:30 p.m.; they were not processed until 2 a.m.

The three men were charged with four counts of drug violation and one count of tampering with records or identification.”

The package recipient also received one count of “criminal conspiracy to manufacture marijuana.” The woman, who is not a resident of the house, was charged with two drug violations, as a pipe and a small amount of marijuana were found in her purse.

All four students spent the night in detention cells and were released on bail the following day. The Court Magistrate set bail at \$5,000 for each of the men, and \$1,000 for the woman. At 2:30 p.m., the girlfriend of one of the men used a bondsman to release three of the students. The other man had bail paid by one of his fraternity brothers. If bail had not been met, the students were scheduled to be transferred to Pittsburgh County Jail at 4 p.m. Two additional occupants of the house returned home later on the evening of the arrest.

Vol. 85, Issue 15

University Center

University Center to be completed on fall 1993

The new University Center should be completed “about the beginning of September of 1993,” according to Carnegie Mellon Senior Vice President Ed Schatz. “We hope to have it open and available for students’ use at the beginning of the 1993-94 school year,” said Schatz.

“Right now, construction is scheduled to begin with the razing of Skibo Hall, which is to start around November 1 of this year,” he said. Unfortunately, according to Schatz, the building is projected to cost between \$40-42 million. “[CMU President Robert] Mehrabian has said we won’t borrow any money to build it — so we have to have a good chunk of that money on hand.” So far, only the “schematic layout” part of the building design has been finished. Those drawings are on display in Skibo 100. Planning is currently in the “design and development” stage, said Schatz. “The architects are now worried about the functionality of the rooms, the finishing materials, and other details like that. They also talked with students about the uses for the building to help plan designs accordingly.”

Vol. 85, Issue 13



File Photo by Josh Freeman

Lawsuit alleges sexual misconduct by Cyert

Then-President Richard M. Cyert made sexual advances to a Carnegie Mellon employee when she worked for him in August 1972, according to a suit filed by the employee in federal court in November 1989.

After the employee resisted Cyert’s advances, Cyert worked for 16 years to deny her promotions and got her fired, finally succeeding in 1988, according to the legal complaint.

The complaint also accuses CMU of age and sex discrimination in its promotion and dismissal decisions. Although Cyert and other University officials strongly deny the allegations made by 22-year CMU employee Patricia Tanner, the suit was settled out of court by the University in September for an undisclosed amount.

“It’s just plain nonsense, and I’m not too interested in talking about it,” Cyert said of the sexual advances allegation. Current President Robert Mehrabian, who took Cyert’s job last July, also defended Cyert.

“I totally believe in his integrity and I cannot believe that such allegations could possibly be true,” he said.

“The allegations are unsubstantiated and unsubstantiable.” SUPA Dean Alfred Blumstein denied that Tanner was fired because of sex or age discrimination.

When questioned about these issues, Blumstein said, “Absolutely not. She was replaced by a woman; and [Tanner] was not very old.” Tanner was 55 at the time she was fired. Tanner and employees of CMU are legally barred from discussing the details of the case by a clause in the settlement. However, Tanner’s complaint tells her side of the story and Senior Vice President for Legal Affairs Alvin Brannick told The Tartan that “if you read [our answer], then I think you would understand CMU’s position.”

“It was a horrendous experience that I’m still having a difficult time getting through,” Tanner told The Tartan.

Vol. 85, Issue 23



File Photo by Thomas Nichols

Raise tuition, keep promises

None of us are thrilled to be digging up an extra \$1,250 out of our pockets — pockets that in some cases are already pretty empty — to accommodate the 1991-92 undergraduate tuition hike.

But before we complain about spending more money, let's take a look at what we'll get in return.

If the administration does what it promises to do with the money — and if CMU students do indeed get more bang for their buck — then the increase is a good idea.

Supporting CMU's aid-blind admissions policy (admitting students regardless of financial need) is one of the major reasons behind the raise.

More and more students are requiring financial aid; to keep the level of aid where it is now, students who can pay more must.

Faculty salaries and general services also necessitate the raise.

Above all, it's unrealistic to expect any school to increase what it offers — the quality of education and the quality of student life — without increasing what it takes in.

Without more money, it's impossible for CMU to keep pace with schools of its caliber.

And none of us want Carnegie Mellon to fall behind. If an 8.9 percent increase is what it takes to maintain CMU's status as a first-rate private university, then we support the tuition hike.

But only if the administration stands behind its word. When tuition was raised to \$14,000 for this year, a \$1,000 increase from last year, students expected to get their money's worth.

But when the Modern Languages Department cancelled six courses and cited budgetary constraints as the main reason, at least 92 students were directly affected, and the entire campus was left doubting the sincerity of the administration's intentions to provide top-rate education and go forward with new programs.

A faltering of the University's aid-blind admissions policy or a decrease in the quality of education would constitute a serious breach of trust between the administration and the student body.

So next year, when this latest tuition hike goes into effect, we'll be keeping our eyes and ears open. If students' pocketbooks are an extra \$1,250 lighter, they deserve what they've been promised.

Vol. 85 Issue 16

**Apply to become an
Andrew Ambassador for the
Office of Undergraduate
Admission!**

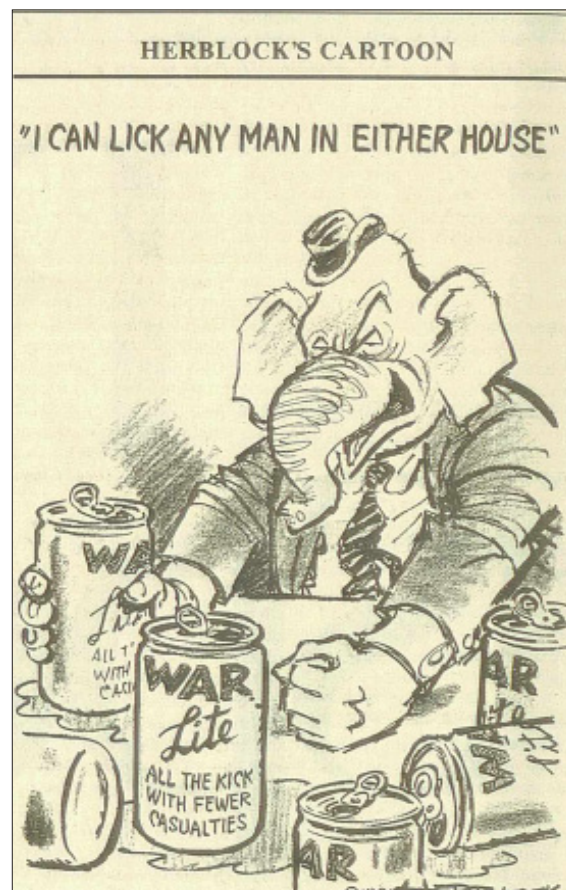


Are you looking for an on-campus job
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Apply to be an Andrew Ambassador
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campus tours, email communication,
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We're looking for enthusiastic
students to work during the summer
and/or academic year. Hours are
flexible based on your schedule.

Submit your application to
[admission.enrollment.cmu.edu/
pages/andrew-ambassador-
application-form](http://admission.enrollment.cmu.edu/pages/andrew-ambassador-application-form) by Friday, April 29.



A rather aggressive comic, pulled from Issue 85, No. 20

10 Years Ago: 2006

Shhh! Don't slurp: New café to open on first floor of Hunt Library

Staying in the library all night might taste a little better next fall when the Maggie Murph Café opens on the first floor of Hunt Library. The new campus eatery will serve coffee, grab-and-go sandwiches, and salads.

Alumni, along with the University Libraries and Dining and Housing Services, are working together on the project.

"It's a great partnership between the library and Dining Services," said Tim Michael, director of Housing and Dining Services.

"Putting coffee shops in libraries is pretty common on college campuses, and they're doing it in response to student demand," Michael said.

Alumnae from Margaret Morrison Carnegie College, the University's former women's college that the café is named for, began expressing interest in funding the project last fall. Lami Grubb Architects have completed the design for the space, which features service and seating areas as well as dedication panels funded by alumni. Suzan Lami and Robert Grubb are both alumni of Carnegie Mellon's School of Architecture.

"[Margaret Morrison alumnae] are so excited to have a place in the library," said Erika Linke, associate dean of University Libraries. Housing and Dining Services have not yet selected the vendor for the new café. Michael plans for it to be open for longer hours than most campus dining locations, possibly from 7 a.m. to 11 p.m. The menu, he said, would be suited to serving breakfast and lunch blocks on the meal plan.



Courtesy of flickr commons

A current photo of the Maggie Murph Café in Hunt Library. The students of 2006 anxiously awaited this addition.

Michael is excited about the options at Maggie Murph. "The highlight will be the Starbucks coffee," he said. "We'll have a full cappuccino machine there."

Dean of University Libraries Gloriana St. Clair hopes the café will increase student satisfaction with the library. "Our real vision for this is that the library will become an intellectual commons," she said. According to St. Clair, there are just over half a million visits to the library each year. Linke and St. Clair predict a positive impact on the campus community stemming from the increased

convenience to studying the café will provide.

"Typically, when people have eaten, they do better," said Linke. "We see how student needs have been changing. We're looking as well to build some group study rooms."

by **Patrick Pettibon**

SEXUAL ASSAULT RESEARCH

The University of Pittsburgh Department of Radiology is seeking **18-25 year old women** who have experienced **sexual assault** or **sexual misconduct** for brain imaging research studies.

- Compensation up to \$700 upon completion
- Contact info: call **412-586-9888** or visit **www.addictionstudies.pitt.edu**

*The University of Pittsburgh's support resources for sexual assault and/or harassment including instructions and contact information for reporting can be located at **www.SHARE.pitt.edu** and **www.safety.pitt.edu**.*



University of
Pittsburgh

Black students opt out of CMU

Despite dogged efforts by the Office of Admissions, diversity is down at Carnegie Mellon this year.

The Journal of Blacks in Higher Education (JBHE) published its 14th annual survey of first-year blacks at the nation's highest-ranked universities and liberal arts colleges; Carnegie Mellon posted significant declines in two population areas.

Carnegie Mellon's number of black first-years declined 25 percent, with enrollment dropping from 79 to 59 students out of 1453 in this year's first-year class. The university is one of eight high-ranking universities with a decline greater than 10 percent.

Only 18 percent of black students offered admission at Carnegie Mellon accepted their offers. This statistic — black student yield — was lower at Carnegie Mellon than at any of its peer institutions.

"Our friends just outgunned us," said William Elliott, vice-president of enrollment.

There was nothing subtle about 301 of 360 admitted black students opting for other institutions this year.

According to Carnegie Mellon's admissions statistics, 12 of those students chose the Massachusetts Institute of Technology (MIT) instead. Stanford University, Duke University, and five Ivy League schools were among other top student alternatives.

"The financial aid might be better at some of these schools. We'll go back and analyze if financial aid can be more generous, but you have to be careful there. Giving someone more money means someone else is getting less," Elliott said.

The university saw applications from 940 black applicants this year, one of the highest numbers in school history. Elliott attributed the increase to Carnegie Mellon's Summer Academy for Math and Sciences, a summer program geared towards the black and Hispanic populations. All of the approximately 1000 students that attended the program were encouraged to apply to Carnegie Mellon. This was a change from years past, when only certain students were encouraged based on their qualifications.

"Some kids that applied from the summer program might have been encouraged to apply even though they were less than qualified. I can't prove it," Elliott said.

The California Institute of Technology (CalTech) is an institution similar to Carnegie Mellon in its focus on mathematics and sciences. While it appeared to have the largest percentage increase in black first-years of all top-ranked universities, at 200 percent, it actually only had three black students in its first-year class. Caltech was one of the smallest of all schools surveyed, with 1.4 percent of the entire first-year class composed of black students. Last year the school had one black student in its first-year class. One of those students chose Caltech

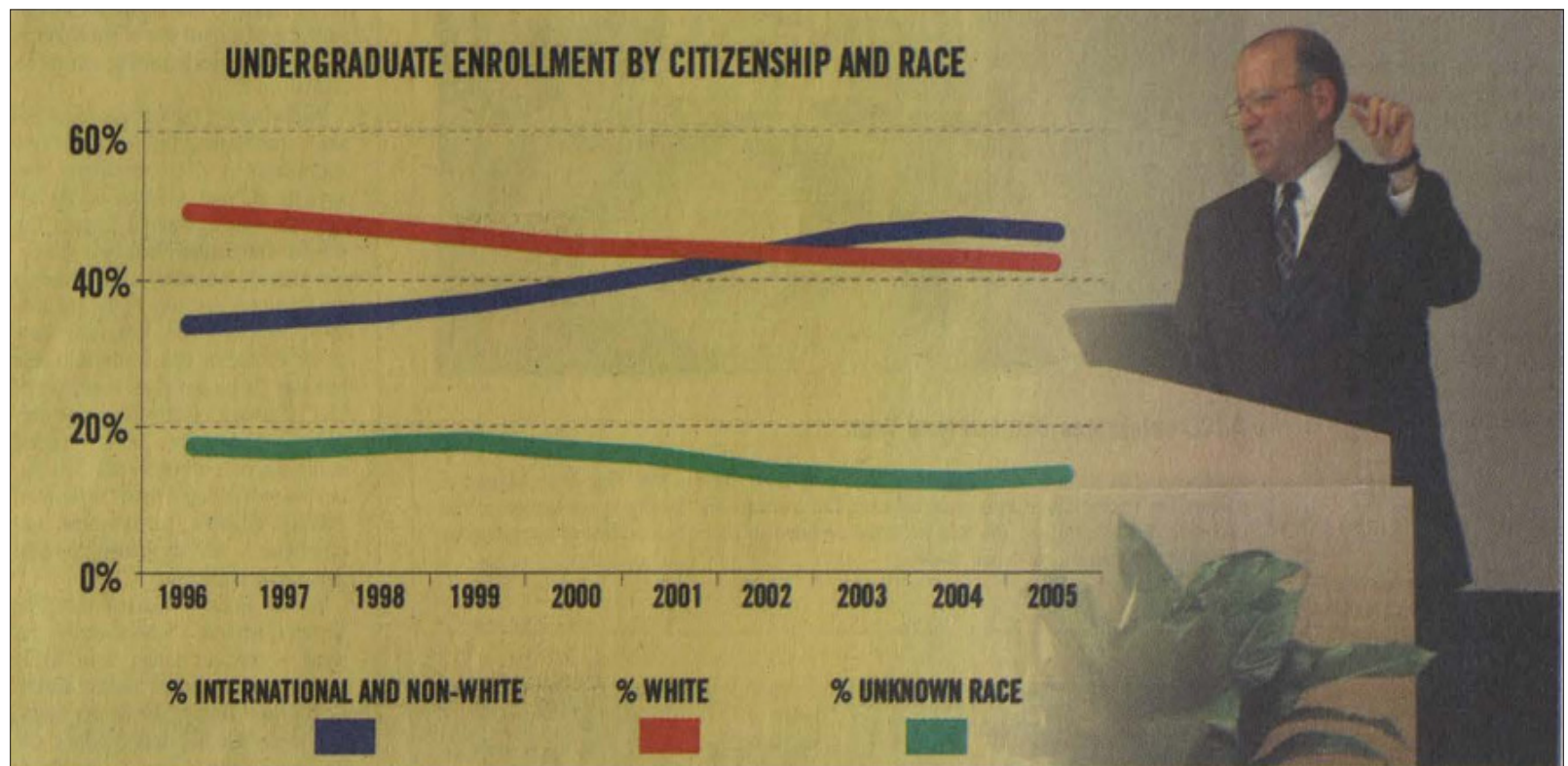
over an offer of admission from Carnegie Mellon. Columbia University did the best of Ivy League institutions with blacks constituting 9.4 percent of the first-year class. The University of Pennsylvania posted a 26 percent black acceptance rate, compared with only 18 percent for the overall student body. This was one of the biggest acceptance differentials of all participating schools. Nearby Swarthmore College in suburban Philadelphia was top-ranked among liberal arts colleges with 11.6 percent of first-years being black.

Haverford College, ranked second, and Bryn Mawr College, ranked seventh, rounded out the trio of successful liberal arts colleges in this geographic area.

"Those three schools have all shown a deep commitment to increasing racial diversity. Location certainly helps: They can get students from Maryland, New York, and New Jersey, in addition to Pennsylvania," said Robert Slater, managing editor for JBHE. Slater wrote the black enrollment survey article that reports on Carnegie Mellon and other top institutions' enrollment statistics for his publication's fall 2006 issue.

University of North Carolina at Chapel Hill led all 30 schools surveyed, with a 12 percent black first-year class. The Tar Heels have earned the distinction of highest percentage of black students out of the entire first-year class six times in eight years.

by **Michael R. Fitzgerald**



File photo

This graphic is from an edition of The Tartan published on December 4, 2006. Statistics show the undergraduate enrollment rates for Carnegie Mellon.

5 Years Ago: 2011

Scotch'n'Soda presents poignant Cabaret

Carnival is usually an upbeat weekend, as students celebrate their days off from school and cheer on their classmates in Sweepstakes. Scotch'n'Soda brought a more serious note to Carnival this year, however, with its production of Cabaret. Cabaret focuses on the Kit Kat Club, a seedy cabaret club in Berlin, as the Nazis are rising to power. The play centers on the relationship between English cabaret performer Sally Bowles (Heinz College master's student Shannon Deep) and American writer Clifford Bradshaw (junior music major Sean Pack).

The set was fairly sparse, with a balcony and staircases leading down on either side of the balcony and only a select number of furniture pieces that the crew added and removed from the stage as necessary. Around the edge of the stage were round tables with red tablecloths that audience members could sit at. During the scenes set at the Kit Kat Club, the seductive Kit Kat dancers would approach the edge of the stage and flirt with the audience members sitting at the tables, which helped to reinforce the nightclub atmosphere. The Kit Kat performers were all excellent dancers and stayed in character well; Chandler Patton, a first-year drama student, was particularly entertaining in the role of the young cabaret dancer Helga.

Deep was charming and did an excellent job of showing the complexities of Sally's character; however, her singing voice, while lovely, lacked the power and depth necessary for the part. She and Pack, who played

Clifford Bradshaw, had a great onstage chemistry, and Pack did an excellent job of portraying Cliff's range of emotions.

Matt Zurcher, a sophomore humanities and arts major, played the Master of Ceremonies of the Kit Kat Club, and functioned as an omniscient storyteller throughout the show. Zurcher was a perfect mix of funny and creepy; he originally had the audience laughing with his eyebrow waggling and over-the-top attitude, but became progressively more eerie and terrifying as the show progressed and the Nazis gained more power. Cabaret also featured a romantic subplot involving Cliff's landlady, Fraulein Schneider (played by junior music major Gillian Hassert), and one of her boarders, a Jewish fruit vendor named Herr Schultz (played by Alex DiClaudio, a master's student in Heinz College). Their scenes together were tender and funny, particularly when they sang "It Couldn't Please Me More," about a pineapple that Herr Schultz gives Fraulein Schneider.

Despite some inconsistencies with accents — some of the characters' English and German accents sounded exaggerated — the show, as a whole, was a success. Will Weiner and Dan Wetzel, a sophomore economics and decision sciences major and a CIT master's student, respectively, directed it. They put on a strong production, drawing the audience into the world of the Kit Kat Club while managing to be funny and poignant.

by **Anna Walsh**



File photo

Scotch'n'Soda rocks the stage with their rendition of Cabaret

Big Boi thrills crowd at Carnival concert

With all the activities going on during Carnival, some events slip through the cracks. The Big Boi concert, brought to us by Carnegie Mellon's Activities Board, was one event that refused to do so. AB is no stranger to pulling off some stellar concerts. Its past Carnival concert successes include performances by The New Pornographers in 2009 and The Black Keys in 2010.

For this year's Carnival, AB kept up the momentum of past success by introducing Carnegie Mellon to Big Boi, one half of the hip hop duo known as OutKast. The concert, which was almost relocated indoors due to weather misgivings, was held on the CFA Lawn. As concertgoers assembled around the stage, Hunt Library's multicolored lights glowed in the background, adding to the excitement and heightening anticipation of the night's performance.

When AB introduced the opener, Brother Ali, the crowd could barely contain its enthusiasm. Students from Carnegie Mellon, Pitt, and other schools welcomed the famous albino hip-hop artist as he took the stage and performed some of his more famous numbers. Brother Ali, straight off his Fresh Air Tour, is no stranger to the spotlight. Armed with a microphone and his DJ, Brother Ali set out to show the audience why his latest album is in Billboard's Top 100. After pumping up the crowd, he exited the stage to raucous applause, greeting and hugging fans as he left.

After Brother Ali, Big Boi, the long awaited headliner, took the stage. Right away, he opened with an OutKast classic. As the lyrics to "Ms. Jackson" rang out, the crowd went crazy and started singing along. Big Boi, or Antwon André Patton — also known as Daddy Fat Sax and General Patton — kept the audience going with oldies, new hits like "Tangerine," and politically charged numbers like "Bombs Over Baghdad."

His onstage antics proved he was a masterful performer, combining talent and personality to win the crowd. Some, like sophomore Madeleine Kelly, were converted into fans when roommates and friends took them to the concert. Kelly, a materials science and engineering major, said her favorite part of the show was when Big Boi played "Shutterbugg." "He was just as good live as when I was just listening to his music," Kelly said. "I definitely think he was a hit here, especially since there were so many people not from Carnegie Mellon that attended."

Kelly wasn't the only one who thought the performance was powerful. "I'm in love with Big Boi and really liked the concert," Ruari Egan, a sophomore



civil engineering major, said. “I loved when he played ‘Fo Yo Sorrows’ off his new album — that’s my favorite song.” The album, *Sir Luscious Left Foot... The Son of Chico Dusty*, was released in July 2010.

Big Boi continued to present his album during the Carnival concert and played a good number of songs from his new album, including “Shutterbugg” — one of the most popular songs on the album — “You Ain’t No DJ,” and “Shine Blockas” to name a few. He even let a group of girls from the audience go up and dance with him onstage for two or three songs, no doubt garnering some dedicated fans in the process. This crowd-pleasing tactic, along with the pulsating lights set up on the stage and the music videos playing on the left and right of the stage, all combined to form a well-planned and impressive concert spectacular.

Every year it seems like the Carnival concert is getting bigger, badder, and better. Congratulations to the coordinators of the AB Concerts and the Carnegie Mellon and Pittsburgh community for making this year’s Carnival concert something special. Next year will no doubt exceed expectations as well.

by **Christa Hester**



File photo

Big Boi’s performance pleased fans both new and old



File photo

Alice’s fantastical world of Wonderland springs to life in the Drama School’s production of *The Alice Project*

Re-engineering Lewis Carroll’s classic tale *Alice in Wonderland*, the final play of the School of Drama’s 2010–11 season, *The Alice Project*, debuted last Thursday, April 14, at the Philip Chosky Theater. *The Alice Project* thrusts the timeless story of *Alice in Wonderland* into the spotlight of twenty-first century technology. In this twisted marriage of art and machinery, Alice explores what it is to be human in a world that is a far stretch from Victorian England.

The Alice Project ponders the existential question: Who is Alice? The play leaves that up for question. At one point, Alice even forgets her own identity, before remembering that she is, in fact, a human girl. As Alice moves from square to square in attempt to become a queen, different characters perceive her in different ways. However, no one way seems to correctly identify who she is.

A play within a play, the story begins with the writers of *The Alice Project* interviewing Alice in an attempt to discover her personality and motives. While Alice says that she is home-schooled, has a governess, and appears to live in Pittsburgh, there is an ethereal quality about her that suggests otherwise. As one of the writers begins to read aloud from a book about Alice, the story changes to follow the narrative and suddenly the audience is watching the story of Alice herself, as she tumbles through Wonderland. Alice is played by four different actors: senior drama students Krista Marie Yu, Sara Trapnell, Evan Barron, and Tess Primack, who are able to act almost interchangeably, through the

exchange of Alice’s iconic hair-ribbon, as the “real” Alice throughout the production.

The juxtaposition of man and machine was an integral part of the performance. Notably, instead of a pit orchestra, there was a tech crew seated beneath the stage, orchestrating the complex visuals in each scene. Offsetting the changing digital backgrounds, the story used a three-tiered, metal, chess-like stage set in order to loosely tie together the story arcs. As Alice navigates from one square to the next, the story also progresses in different directions.

The combination of acting and live-action recording via the video cameras onstage produced a novel storytelling effect. Depending on one’s opinion, it created either a connection or a barrier for the characters, many of whom spoke primarily into video cameras in order to interact with the different characters onstage on different squares.

Trapnell, one of the Alices in the performance, spoke about *The Alice Project* after the show. “It’s been a really cool and interesting process,” Trapnell said. “Working on *The Alice Project* was challenging in a good way. We had to learn how to act with the cameras as if we were acting to someone. Physically it was also challenging, because there was a lot of climbing around the sets in practice. *The Alice Project* was a lot of fun to prepare and it is so exciting to see it all come together now onstage.”

by **Jackie Mansky**

For 101st year, Carnival booths display scenes from a Living Library

If you stepped onto Midway during this year’s 101st Spring Carnival celebration, you may have noticed some familiar faces—no, not the faces of peers or fellow alumni, but the faces that appeared in some of your favorite books.

This year’s Booth theme, Living Library, brought some of the most prominent books of the past and present to life on a Midway that seemed particularly polished. Despite a few hitches, like the failure of Delta Gamma and Alpha Chi Omega to open their *Jumanji* and *The Twelve Dancing Princesses* booths, respectively, it was delightful to see old classics like the *Berenstain Bears* and newer books like *Life of Pi* brought off the page and put onto the pavement of the Morewood Parking Lot.

Every year, the Carnival Committee examines the booths from top to bottom to determine which are the best of the best. This year, the committee awarded first place in the fraternity and sorority categories to Alpha Epsilon Pi for their *Jurassic Park* booth and Kappa Alpha Theta for their *Wonderful Wizard of Oz* booth, respectively. For blitz booths, the committee awarded first place to the Mellon College of Science for their *The Hunger Games* booth. For independent booths, the committee awarded the Taiwanese Students Association’s *Life of Pi* booth with first place.

The Tartan similarly takes a look at every nook and cranny of the booths to determine which are the most successful, as well as which booths were most underrated. This year, we award our third annual Boothy Awards in what were, although not necessarily category winners, some of the best booths this year.

The Architecture Boothy for Best Design

Kappa Alpha Theta takes this boothy for their unique staircase leading up to the second story that replicated a tornado with a grayscale theme to match the aesthetics of the *Wonderful Wizard of Oz*’s movie counterpart. The kitchen from Kansas at the beginning of the booth was also quaint and cozy, while the staircase leading down from the second story was impressive with its flying monkey at the base that looked as if it was taken straight from the movie.

In a close second, Delta Tau Delta’s *Journey to the Center of the Earth* booth had a similarly impressive staircase that replicated the feeling of walking into the depth’s of the Earth’s many layers. The loud, crushing sounds that reverberated around the staircase and a special mirror illusion added to the effect of walking into a never-ending space.

The Pong Boothy for Best Game

Phi Delta Theta’s Oculus Rift game at their *Twenty Thousand Leagues Under the Sea* booth went above and beyond to deliver a unique experience to the user. Guests put the virtual reality headset on and then proceeded to shoot the giant squid from the book out of the water to save the Nautilus submarine. The game was not only immersive, but generally seamless and fun to play.

Other games, like the Singapore Students’ Association’s *The Little Prince* game, were right up there with Phi Delta’s. The game had two users interact with a touchscreen to dig up plants that popped up on the screen. However, Phi Delta’s booth took the cake with its game’s impressive scope.

The Andy Warhol Boothy for Best Art

The TSA incorporated impressive art into their *Life of Pi* booth. Not only did they place an elaborate mural on the outside of their building that gave the whole structure an ancient feel, but they also constructed a number of paper mâché animals that visitors could interact with. Among the animals were the book’s iconic tiger in the equally iconic raft, a peacock, and a zebra. The art, both inside and outside, of this book captured the essence of the book perfectly.

The Boothy for Most Family-Friendly Booth

The Asian Students Association (ASA) takes this award with their *Cloudy with a Chance of Meatballs* booth. Of course, the theme of this booth automatically lends itself to a family-friendly atmosphere.

But ASA followed through with a fun fishing game for the kids. A stream pushed wooden food through the game’s area. Players had to use a magnetic fishing rod to get the food. Overall, the booth had a light-hearted feel that had the potential to keep kids hanging around for much longer than they would at some of the more serious booths, like Student Dormitory Council’s *1984* and Fringe’s *Sherlock Holmes* booths.

The Andrew Carnegie Boothy for Best Overall Booth

The Tartan’s favorite booth overall was Alpha Epsilon Pi’s *Jurassic Park*. All components of this booth were put together well, contributing to a structure with solid features all around. Not only was the game, which involved a gun and dinosaur targets, fun, but there were other impressive features like museum artifacts that contributed to a learning experience.

The fraternity’s largest “Wow” factor was the real Jeep sitting at the bottom of the booth on the way out. The room containing the Jeep was a great place for photographs and, come on, there was a Jeep in a booth! For all these reasons, Alpha Epsilon Phi’s booth squeezed out this best-of-booths award.

Conclusion

While the 101st Spring Carnival had some of the best booths The Tartan has seen to date, this year’s booths were able to compete with the booths created for last year’s milestone event.

The booths this year were elaborate with some unique structural designs, the likes of which are rarely seen. Games were particularly enjoyable and the intricacy of the art adorning booth walls lived up to previous years.

This year, it showed once again that Carnegie Mellon’s students have their hearts in this Spring Carnival main event. Here’s to many more years of booth, although next year will most likely see booths constructed not on the Morewood Parking Lot, but in the lot next to the College of Fine Arts.

Will those booths live up to the ones constructed in the Morewood lot despite the possible logistical challenges of adapting to a new booth location? Time will tell, and the fourth annual Boothy Awards will be here to dissect those structures.

Carnival Committee Awards

Blitz

1. MCS: *The Hunger Games*
2. Mayur: *Aladdin*
3. Math Club: *What If?*

Independent

1. TSA: *Life of Pi*
2. ASA: *Cloudy with a Chance of Meatballs*
3. KGB: *Where the Sidewalk Ends*

Sorority

1. Kappa Alpha Theta: *Wizard of Oz*
2. Kappa Kappa Gamma: *Magic Tree House*
3. Delta Delta Delta: *Where the Wild Things Are*

Fraternity

1. Alpha Epsilon Pi: *Jurassic Park*
2. Sigma Phi Epsilon: *The Polar Express*
3. Delta Tau Delta: *Journey to the Center of the Earth*

by **Braden Kelner**

Student government election results were released last Tuesday. Junior policy and management and Chinese studies double major JR Marshall and junior information systems major Jibby Ayo-Ani were ratified on Wednesday as the incoming student body president (SBP) and student body vice president (SBVP), respectively.

Marshall and Ayo-Ani won with 37.18 percent of the total vote. Competitors junior information systems major Evan Wineland and sophomore math major Connie Yang came in second place with 31.66 percent, while junior electrical and computer engineering major Divya Kothandapani and third year Ph.D. candidate in mechanical engineering Mark Whiting earned 14.61 percent. The final running pair, senior statistics and economics double major Saif Jedidi and sophomore computer science major Ben Debebe, ended the election with 11.58 percent of the vote.

Additionally, junior math major Benjamin Zhang was elected unopposed as student body vice president for finance (SBVPF). Meanwhile, sophomore chemical engineering and engineering and public policy double major Trevor Hadick was elected over sophomore math and economics double major Ryan LaPré as student body vice president for organizations (SBVPO). Hadick received 42.42 percent of the vote, while LaPré received 29.16 percent.

This year’s election demonstrated a significant increase in student participation. 26.22 percent of total students cast votes, compared with 17.9 percent in 2014. 41.06 percent of undergraduates voted, compared with 32.43 percent in 2014. Meanwhile, 10.36 percent of graduate students voted, almost triple the number who voted last year.

The election was “quite a ride,” Marshall said. He added that it was “really encouraging to get the campus involved in an election” and that all students “deserve a student government that works for them.”

According to Ayo-Ani, she and Marshall crafted a platform that addressed as many students as possible in an effort to increase student participation in the election. “Our goal from the very beginning was to get as many people involved as possible,” she said.

“Students are coming to realize what an important time this is in our long-term history,” Marshall said. He is confident that students are starting to “take ownership of the future of Carnegie Mellon.”

Marshall and Ayo-Ani ran on a platform that emphasized mental health awareness and efforts to combat sexual assault and relationship violence on campus, including getting all campus leaders

certified in the Survivor Support Network. In addition, they want to expand acceptance of DineX at businesses close to campus and establish a “Reorientation Day” in the middle of the semester to facilitate students’ mindfulness.

Current SBP and senior electrical and computer engineering and business administration double major Ian Glasner reflected on his own tenure as SBP so far at Senate last week, citing successful campaigns such as the Proud to Be Plaid initiative and committee, the student initiatives website, and the Jared L. Cohon University Center expansion plan.

Glasner’s administration also fought to decrease exceptions to the university’s moratorium on having classes between 4:30 p.m. and 6:30 p.m., so that all students can participate in extracurriculars, and to internalize Carnegie Mellon’s alcohol citation policy.

Glasner emphasized that, though many of his initiatives have become reality, there are still some that have yet to be corrected, such as housing and dining prices, which are much higher than those of off-campus options. He stressed that larger student movements are necessary to make the changes to these policies. “Housing and dining are not going to improve until that happens,” Glasner said.

Marshall and Ayo-Ani do not wish to set any first priority for tackling their administration’s initiatives, as there are “so many issues of equal importance that can’t wait,” Marshall said.

They are already engaged in an “orchestrated, synthesized effort to set [their initiatives] in motion right away and get the right people in place,”

Marshall said. “[We’re] reaching out to administration to move from feasibility talks to talks of logistics,” Ayo-Ani said.

Each of their initiatives starts with student town halls, according to Marshall, to show that students’ voices are their administration’s top priority.

“We want to help give people that springboard to do great things here,” Ayo-Ani said.

“We’re not superheroes,” Marshall said, “but this student body is made up of superheroes.”

Marshall spoke of his working relationship with Ayo-Ani saying, “We really consider ourselves a team. We share the same goals, the same values, and the same future for this campus.”

Marshall additionally expressed his desire to integrate their former competition into their administration: “We want to work with our competitors. They were so gracious, full of integrity, and real pleasure to run against, and they will continue to be just as much a part of the team ... to make the future a little brighter.”

“We’re really thankful that the student body would choose us to lead us through next year,” said Marshall. “We really believe we can leave [Carnegie Mellon] a lot better than how we found it.”

by **Ariel Hoffmaier**

Ayo-Ani and Marshall strike a happy pose for The Tartan after winning the Student Body elections.



Photo by **Justin McGovern**

Alumni Carnival Calendar



File Photo by Jonathan Leung

The following list includes some alumni events occurring over Carnival weekend. For non-alumni events, please see the Pillbox Carnival calendar on page C18. For a full list of events, location updates, and more information, visit <https://guidebook.com/guide/61142/schedule/>.

Thursday 4/14

CIA Alumni Brunch

Cohon Center, Danforth Lounge (2nd floor).
8:30–11:30 a.m.

Carnegie Involvement Association (CIA) alumni and family are welcome to stop in before the Buggy Showcase. Come in, have chocolate chip pancakes, and talk with the current students of CIA.

Buggy Showcase

TBA. 12–2 p.m.

Come view the current and latest buggy designs, hear Shafeeq Sinnamohideen (CIT '00, SCS '10) talk about timing, talk with the teams, view race day footage from previous years, and see the vintage buggy display sponsored by Buggy Alumni Association. The Interactive Kidzone provides the opportunity to sit in a buggy, as well as build and race your own LEGO® buggy. Proudly sponsored by GoDaddy, who sponsor the three awards to the first, second, and third place finishers.

Spring Carnival Opening Ceremony

Midway, CFA Parking Lot. 3 p.m.

Join the Spring Carnival committee, Pipes & Drums Band, and, of course, Scotty as we celebrate the opening of Midway! Be sure to stop by the Alumni Association area of the Midway Tent — just look for the giant inflatable Scotty dog!

Alumni Association Welcome Tent

Midway Tent, CFA Lawn. 3–6 p.m.

After you check out all of the awesome Booths, be sure to: take a selfie or group shot at our Photo Booth, spin the Philanthropy Wheel (we also have a kid's wheel!), and pick up your FREE Carnival souvenir. Hosted by the Class of 1991, in celebration of their 25th reunion!

Carnival Check-In & Welcome Area

Cohon Center, Wean Commons (1st floor). 3–6 p.m.

Be sure to make this your very first stop when you get to campus to register for the weekend, find out exactly what to do (and where to go), and get your FREE Carnival souvenir!

Open House for Alumni Who Are CMU Faculty and Staff

Alumni House (1st floor). 4–5:30 p.m.

The Alumni Association invites our more than 1,000 CMU faculty and staff who are also Carnegie Mellon alumni for refreshments and fun to kick-off Carnival weekend. Be the first to solve the CLUE Castle mystery at the Alumni House!

Please note, only the first floor is handicapped-accessible. Walk-ins welcome/no event fee.

Kiltie Band Alumni & Student Reception

Alumni Association Tent, Frew Street. 4:30–6:30 p.m.

After the Kiltie Band Spring Carnival kick-off concert, current and former Kilties are invited for food and fun! Walk-ins welcome/no event fee.

Scotch'n'Soda Theatre Carnival Show: Legally Blonde

Cohon Center, Rangos Ballroom (2nd floor). 7 p.m.

Join Scotch'n'Soda Theatre for our production of *Legally Blonde: The Musical!* Based on the popular film, *Legally Blonde* follows sorority girl Elle Woods on her journey to Harvard Law School and beyond.

This funny and ultimately triumphant tale is fun for all ages, and is sure to make your Carnival experiences a little more fabulous! Ticket reservations can be made at snstheatre.org or purchased at the door. \$10 for adults and \$5 for students (and children under 18).

Spring Carnival Comedy Show: Joe Mande and Kate Berlant

Midway Tent, CFA Lawn. 7:30 p.m.–12 a.m.

Activities Board presents Joe Mande and Kate Berlant for the 2016 Spring Carnival Comedy Show. Mande is a stand-up comedian, writer, and Internet personality, known for his Twitter presence. He has written for *Parks and Recreation*, *Kroll Show*, *Comedy Central's Roast of James Franco*, and



educated on Adult Swim. Kate Berlant is an actor and stand-up comedian. She was recently lauded by *The New York Times* for her stand-up, and she stars in episode four of Netflix's new eight-part comedy series *The Characters*.

Friday 4/15

Alumni Association Welcome Tent and Buddy Watch Area

TBA. 8–12 p.m.

Stop by for a donut, fresh fruit, and drink while watching the preliminary races! And, if you didn't already get one, pick up your FREE Carnival souvenir. Hosted by the Class of 1991, in celebration of their 25th reunion!

Alumni Association Welcome Area

Midway Tent, CFA Lawn. 11 a.m.–6 p.m.

After you check out all of the awesome Booths, be sure to: take a selfie or group shot at our Photo Booth, spin the Philanthropy Wheel (we also have a kid's wheel!), and pick up your FREE Carnival souvenir. Hosted by the Class of 1991, in celebration of their 25th reunion!

Inaugural BXA Alumni Luncheon

Solar Decathlon House and Donner Dell. 12–2 p.m.

The BXA Intercollege Degree Programs welcome alumni and current students of all three programs (BHA, BSA, and BCSA), as well as prospective students and parents, to our inaugural Carnival Alumni Luncheon.

Join us at the Solar Decathlon House to reminisce about your time as a student in our programs, reflect on the many exciting changes that have occurred in the 20+ years since the first Bachelor of Humanities and Arts degree was awarded, forge new ties of mentoring and support with our current student body, and of course, enjoy a delicious meal!

This luncheon is presented by the students of BXA Seminar II: Building BXA, who have planned several fun activities for our guests.

Ballroom Dance Club Alumni & Student Reception

Cohon Center, Activities Room (2nd floor). 12–3 p.m.

Alumni and students of the ballroom dance club are welcome to join us for dancing and refreshments. Pay at registration/\$5 fee for alumni; free for students and children 12 and under.

All Greek Alumni Social

Cohon Center, Danforth Lounge (2nd floor). 1–3 p.m.

A free food social for alumni who were involved in Greek Life during their time at CMU. This includes Panhellenic, IFC, and MGC. Come chat with current students and grab a bite to eat!

Buggy Alumni Panel

Margaret Morrison Carnegie Hall, Breed Hall (Room 103). 1:30–2:30 p.m.

Hear from a select group of Buggy alumni as they recount moments, memories, swap stories and share what really goes on "behind the scenes." Walk-ins welcome/no event fee.

Scotch'n'Soda Theatre Carnival Show: Legally Blonde

Cohon Center, Rangos Ballroom (2nd floor). 2 p.m. and 11 p.m.

Join Scotch'n'Soda Theatre for our production of *Legally Blonde: The Musical!* Based on the popular film, *Legally Blonde* follows sorority girl Elle Woods on her journey to Harvard Law School and beyond.

This funny and ultimately triumphant tale is fun for all ages, and is sure to make your Carnival experiences a little more fabulous! Ticket reservations can be made at snstheatre.org or purchased at the door. \$10 for adults and \$5 for students (and children under 18).

ChemE Alumni, Faculty & Student Mixer

Doherty Hall, Room A100 Rothfus Lab. 3–4 p.m.

ChemE alumni are invited to catch up on what's new with students & faculty research projects, visit the Unit Ops Lab and take a tour of the renovated space in Doherty Hall. Walk-ins welcome/no event fee

Alumni "CLUE Castle" Open House

Alumni House (1st floor). 3–5 p.m.

Stop by for refreshments and fun, and solve the "CLUE Castle" mystery at the Alumni House! Please note, only the first floor is handicapped-accessible. Walk-ins welcome/no event fee.

AB Tech Alumni & Student Mixer

Cohon Center, Danforth Lounge (2nd floor). 4–5:30 p.m.

This year, join current and former AB Tech'ers for some food, fun and conversation during our annual Spring Carnival gathering. Pay at registration/\$5 fee; free for students and children 12 and under.

Spring Carnival Concert: GRiZ and Dan Deacon

Cohon Center, Wiegand Gym (1st floor). 7:30 p.m.

Saturday 4/16

Alumni Association Welcome Tent and Buddy Watch Area

Frew Street tent. 8–12 p.m.

Stop by for a donut, fresh fruit, and drink while watching the preliminary races! And, if you didn't already get one, pick up your FREE Carnival souvenir. Hosted by the Class of 1991, in celebration of their 25th reunion!

Current and Former Spring Carnival Committee Reception

Cohon Center, Wright Room (2nd floor). 11 a.m.–1 p.m.

Were you part of a Spring Carnival Committee (from any and all years)? If so, we hope you are able to join the current committee for this casual reception! Walk-ins welcome/no event fee.

Undergraduate Student Senate Alumni Brunch

Margaret Morrison Carnegie Hall, Breed Hall (Room 103). 11 a.m.–1 p.m.

Alumni and current students: meet and share your experiences of working for the CMU student body. Brunch provided, all campus affiliates welcome. Walk-ins welcome/no event fee.

Alumni Association Welcome Area

Midway Tent, CFA Lawn. 11 a.m.–6 p.m.

After you check out all of the awesome Booths, be sure to: take a selfie or group shot at our Photo Booth, spin the Philanthropy Wheel (we also have a kid's wheel!), and pick up your FREE Carnival souvenir. Hosted by the Class of 1991, in celebration of their 25th reunion!

Scotch'n'Soda Alumni Event

Cohon Center, Connan Room (1st floor). 12–2 p.m.

An event for alumni of Scotch'n'Soda Theatre to network and reconnect with campus and current organization members! We are providing catered food and a never-before-seen student-made film on the history of Scotch 'n' Soda!

The Tartan Alumni Reception

Cohon Center, Room 314 (3rd floor). 2–3 p.m.

Join current students & fellow alumni of The Tartan for fun & conversation. Carnegie Mellon's student newspaper since 1906. Walk-ins welcome/no event fee.

Scotch'n'Soda Theatre Carnival Show: Legally Blonde

Cohon Center, Rangos Ballroom (2nd floor). 2 p.m. and 7 p.m.

Join Scotch'n'Soda Theatre for our production of *Legally Blonde: The Musical!* Based on the popular film, *Legally Blonde* follows sorority girl Elle Woods on her journey to Harvard Law School and beyond.

This funny and ultimately triumphant tale is fun for all ages, and is sure to make your Carnival experiences a little more fabulous! Ticket reservations can be made at snstheatre.org or purchased at the door. \$10 for adults and \$5 for students (and children under 18).

Spring Carnival & Sweepstakes Award Ceremony

Midway Tent, CFA Lawn. 4:30 p.m.

Spring Carnival Magic Show: Peter Boie

Midway Tent, CFA Lawn. 7–9 p.m.

60+ minutes of a belief-challenging, wonderment-enhancing, imagination-inducing, harmonica-appearing, reality-altering, philosophy-spouting, crotch-strapping, destiny-predicting, ghost-contacting magic show that will make you gasp in awe and laugh till it hurts. Belief optional.

Shot for Shot Film Festival

Cohon Center, McConomy Auditorium (1st floor). 8–10:30 p.m.

Join the Carnegie Mellon Film Club for a celebration of the thriving Pittsburgh film scene. We will be showcasing the best new student films from the Pittsburgh-area, representing Carnegie Mellon, Point Park, Pitt and many more! Shot for Shot is FREE and open to the public.

Compiled by **Sarah Gutekunst** | Publisher

Carnival 2K16: What to see, what to do

The ultimate guide to Spring Carnival for the dancers, the music lovers, and the proud Tartans

This year marks the 103rd celebration of Carnegie Mellon's annual Spring Carnival, and as usual there's a lot to check out. Check out <https://guidebook.com/guide/61142/schedule/> for a full list of events and location updates. Here's a rundown of some of the events happening around campus:

Scotch'n'Soda Theatre presents: Legally Blonde!

The classic novel-turned-movie-turned-musical is finally coming to Carnegie Mellon, thanks to Scotch'n'Soda. Featuring a beloved storyline and the infectiously gleeful "Omigod You Guys," this is a show that you do not want to miss.

When:

April 14: 7 p.m.

April 15: 2 and 11 p.m.

April 16: 2 and 7 p.m.

Where: Rangos Ballroom, CC

Tickets: www.snstheatre.org

CMU Om's 1-800-HOLIBLING:

The Hindu festival of color that has become a mode of celebration for people across the globe will be hitting Carnegie Mellon once more. If you missed buying tickets during presale, you can still buy tickets at the event for \$7 per individual. Shirts and

a meal are guaranteed for those who bought pre-sale tickets, and color packets will be available for purchase at \$1 each at the event. If you want an excuse to hurl colored powder at your friends, or if you like running around and becoming a walking rainbow, this is the place to be.

When: April 16, 12–3 p.m.

Where: The Mall (outside Hamerschlag Hall)

Ticket: \$7 for individuals and \$5 for groups

ASA, TSA, and Mayur's Cosmic Club Party @ Xtaza Night Club:

Essentially, a Carnegie Mellon-dominated nightclub with great music courtesy of DJ Bernardo Campos and Hemanth. There are buses ready to take you to and from the event, and a great space to let loose with other members of the Carnegie Mellon community. As usual, 18 to go, 21 to flow, and be sure to bring a government-issued ID with you to show at the door.

When: April 14: 10 p.m.–2 a.m.

Where: XTAZA Nightclub, 1620 Smallman St, Pittsburgh, PA, 15222

Tickets: \$10 presale and \$12 at the door. Presale tickets can be bought from ASA, TSA, and Mayur reps tabling in the Cohon Centre for the rest of the

week 11 a.m.–3 p.m.

Activities Board Presents: Spring Carnival Concert featuring GRiZ and Dan Deacon

DJ and electronic producer GRiZ and electronic musician Dan Deacon are bringing their talents to campus this Friday. To warm up, I'd recommend listening to iLL Type Moves, Hard Times and Lettuce — Slippin Into Darkness for GRiZ and The Crystal Cat, Drinking Out of Cups and Sheathed Wings for Dan Deacon.

When: April 15, 7 p.m.

Where: Wiegand Gym

Questions: ab+concerts@andrew.cmu.edu

Buggy:

Carnegie Mellon's iconic tradition of hurtling brave drivers down hills while steadfast pushers dart and aid the pursuit will be taking place over the Friday and Saturday of Carnival this year. Check out the buggies on Thursday afternoon at the design competition and showcase, and then the races Friday and Saturday morning. Preliminary races will be taking place on Friday and finals will take place on Saturday.

Booth:

If you've been anywhere near the cut this week, you've definitely seen organizations working day and night to perfect their booths. This year the booths are being built around a game theme, and includes the likes of everything from Cooking Mama to Luigi's Mansion. Be sure to take some time during carnival to walk around and check out the fruit of some hard labor.

When: Throughout Carnival

Where: Parking lot between CFA and Tennis Courts

Wilkins Block Party:

IMO brings you the annual Wilkins Block Party featuring two stages, 11 bands and food provided by BRGR and Mac and Gold. All proceeds from the event will be going towards Habitat for Humanity of Greater Pittsburgh, and wristbands are available for a \$5 donation. The artists at the event include Dhruva Krishna Music and the Family Band, Beauty Slap, East End Mile, Memphis Hill and many more. More info is available at: www.wilkinsblockparty.com

When: April 16, 2 p.m.–10 p.m.

Where: 5615 Wilkins Pittsburgh, PA 15217

Apeksha Atal | Staffwriter

Members of the student organization Fringe build their Lego themed booth for Spring Carnival



Abhishek Tayal | Pillbox Editor



AB Concert features GRiZ and Dan Deacon

This year's Carnival artists are renowned for high energy concerts with eclectic electronic sounds

Carnival means much more than shaky booths, underage drinking citations, and first-time marijuana experimentation; it also means great live music. In addition to the famed Wilkins Block Party, Carnival is the time of year that the Activities Board stages their magnum opus. The past three years have seen performances by Lupe Fiasco, Icona Pop and Mac Miller, and RJD2 with Matt and Kim, but this year's artist tops them all: GRiZ with Dan Deacon. While there certainly has been a lot of controversy surrounding this year's pick — with some students calling for a more “mainstream” pick and everyone upset that the Tepper Quad construction has forced the concert indoors regardless of weather conditions — those with an uninformed yet open mind can be shown that this year's concert is set to sweep them all.

GRiZ

Hailing from the suburbs of Detroit, 25-year old Grant Kwiecinski, aka GRiZ, is a certified band geek who gained a spirited by DJing parties at Michigan State before dropping out to pursue music full time. His sound can best be described as a combination of funk, dubstep, and soul music often referred to as electro-soul or future funk. GRiZ combines heavy bass grooves with powerful horn lines that can get even the stickiest wallflower moving on the floor. Over the past few years he's steadily climbed the live music ladder, from opening for artists like Bassnectar, Big Gigantic, Datsik, and Pretty Lights to his own headlining tour in the fall of 2013 paired with the release of his sophomore full-length *Rebel Era*. Since then, he has launched his own record label, All Good Records, to support fellow future funk artists and has been awarded by his native Detroit for his extensive charity work benefitting the city.

While GRiZ's studio albums — 2012's *Mad Liberation*, 2013's *Rebel Era* and 2015's *Say it Loud*, all of which are available for free download at mynameisgriz.com — have played a big role in his proliferating popularity, it's undoubtedly his incredible live performances that have catapulted him from fine print billing to main-stage headliner in only three years. Instead of just mixing tracks and asking everyone to “jump on one... two... three ... GO!”, GRiZ plays live saxophone over his songs. Watching him perform is more Bruce Springsteen than Deadmau5; he'll queue a track, pick up his saxophone and play until his face is beet red, then queue up the next track, rinse and repeat. I've yet to see an electronic musician work harder on stage than GRiZ, and he has recently added the live guitar of Muzzy Bear to the show. The two are known to jam and improvise over GRiZ's productions, adding that human “x-factor” that is so often missing in live electronic music.

Any heartfelt fan of electronic music, soul music, or music in general, will without a doubt have a great time at GRiZ, whether or not you're familiar with his music. He's not only a dynamite performer, but his good-vibes only mantra of

“Show Love, Spread Love” is exactly what Carnegie Mellon needs in these sad times.

Dan Deacon

The Baltimore-based Dan Deacon is a graduate of the Conservatory of Music at State University of New York Purchase and creates heartfelt electronic music crossed with indie rock sensibilities reminiscent of acts like Arcade Fire and Passion Pit. When performing live, Deacon conducts not only his impressive array of instruments and mixers, but also the crowd itself. The entire room comes together at the lead of Deacon, who leads in spiritual meditation and other activities aimed at breaking down personal boundaries and bringing the crowd together as one.

Deacon is another electronic musician who employs live instrumentation both in his recorded material and especially in his live show. Anything from multiple drummers to guitarists and a self-playing piano are fair game to see on stage when Deacon performs, and it's a testament to the incredibly human nature of his music. Don't sleep on catching Dan Deacon at this year's Carnival, as it will certainly be a healthy mix of hippie sit-in antics and beautiful, love-infused music.

Joey Pieser | Contributing Editor



Top: GRiZ makes his signature sound by combining the saxophone with electronic funk. **Bottom:** Dan Deacon mashes indie rock with melodic electronica.



Photos courtesy of Redfishingboat via Flickr Creative Commons

Le Melon: Hearty comfort food at Murray Ave

Local favorite, Murray Ave Grill, serves up warmth in both its food and atmosphere

It's Sunday night, and you haven't seen a movie anywhere except on the confines of your too-bright laptop screen. Your hand reaches for your phone, desperate to find a nice theater where you can put your feet up and relish in the glory of the big screen. Alas, it's cold outside, and you're not about to wait for a bus or take an Uber to South Side or the Waterfront. Well, there's always Manor on Murray, folks. It's got student friendly prices, and if you go late enough, crowd sizes on the lower end of the spectrum. It's truly a unique experience having a theater almost all to yourself — you can laugh as loud as you want and put your feet up. You can also eat as much as you want, which for me tends to be a problem, for movies distract the part of my brain that tells me that I should probably hold off on that next bucket of popcorn one. Because of this, I strive to eat a good meal before I catch a movie, so the munchies take a backseat to the actual movie experience.

Manor is in a local hotspot for restaurants, including a handful of ones that I've reviewed this semester. There's Thai food, Chinese food, Italian food, you name it, and just across the street is a local favorite: Murray Avenue Grill. It echoes the spirit of South Craig's own Union Grill, but with a sort of small town homeliness that warms up the place.

Every time I eat here, the waiters seem to be well acquainted with a majority of the customers present, and are always incredibly friendly. What's best? They know the menu well, and have yet to let me down with their recommendations.

Favorites:

“Famous” Salmon Burger: This burger is an actual godsend. The patty melts in your mouth and is richly seasoned just enough to allow the fish to remain the hero of the plate. The warmth of the patty is cooled down with a roasted red pepper mayo. While the mayo sounds a little odd, its flavors compliment the salmon's incredibly well. The red pepper gives an extra edge of body and bite to the mayo, and tastes best when spread over the patty as opposed to as a mere dip for the sides that come with the burger.

Onion Rings:

The onion rings at this place are huge and fried to perfection. The onion itself is thick enough to hold when you bite into the ring, but also soft and light once it hits your tongue.

Dessert:

Murray Ave has a wonderful spread of desserts, including the famous Prantl's Burnt Almond Torte. I did have the pleasure of trying a dessert, which I believe was a chocolate cobbler of some sort, that surpassed my expectations by a long shot. The dessert arrived in a large glass goblet, like the one's you see giant ice cream sundaes served in in movies. It had a thick layer of a chocolate cake of some sort and glorious vanilla ice cream with whipped cream and chocolate sauce slopped on top. At first glance, it looks like an over-glorified chocolate sundae, but the flavor is something else. I guess the best way to describe it would be a solidified,

gooey hot chocolate with ice cream. It's warm, it's familiar, but it's new at the same time.

“But Apeksha, do they have tea?”

Of course they do, it's your pretty standard run of the mill tea-bag selection. I think the lemon tea washes down the salmon really well, and the green tea is always great. Everyone should try tea with their dinner at some point or another.

Cha-ching:

This place takes cards and cash and is happy to split the check on request. The prices aren't too outrageous considering the sheer size of the portions. You'll get your money's worth and have nice a full belly by the end of the meal.

Herbivores, Omnivores, and Carnivores, lend me your ears:

There's a pretty solid variety, I would say, of vegetarian and non-vegetarian. They do have an excellent black bean patty burger option for vegetarians that is in a class of its own. You can also craft your burger by asking for specific toppings, or you can order any of the pre-designed gourmet options they have to offer.

Are we there yet?:

Right across the street from The Manor on Murray Ave. I'd take any of the 61's from campus. If you're going to Uber or walk, head on over to: 1720 Murray Avenue Pittsburgh, PA 15217

Click, click:

The website's got a menu, a photo gallery, contact information, and other pretty standard features. It's got a nice black and red aesthetic and isn't too hard to maneuver through. Check it out: <http://www.murrayavenuegrill.com>

For those stay-at-home days:

There's no delivery straight from the source, but you can always use Postmates. They do have takeout though, so you can ring in to place an order and pick it up after catching a movie. Here's a number: 412-521-1272

21+:

Pretty much a full bar, which is open later than the kitchen.

Ambiance:

As was mentioned, the warmth of the establishment is infectious and I've done everything from grabbing a quick bite to working on homework here and it's always been an enjoyable experience.

College student friendly?:

For sure. There's very much an “everyone is welcome” sort of vibe that lingers around the restaurant.

Overall rating: 3 melons

Apeksha Atal | Staffwriter



Apeksha Atal | Staffwriter

Murray Avenue Grill's “Famous Salmon Burger” served with freshly cut house fries and red pepper mayonaise.



La Calisto is a raging carnival of love and lust

Opera enthralls with songs of the nymphs, the lament of shepherds, and the wrath of gods

Every so often, we wake from the tedious repetition of our lives and, for whatever reason, remember that we are at a cutting edge, world class institution. Every once in awhile, we become conscious of how proud we are to be Carnegie Mellon students. Well, I definitely had one such moment Saturday night at the School of Music's production of *La Calisto*, an opera in two acts written by the Venetian composer Francesco Cavalli.

The problem with opera, Baroque opera in particular, for modern audiences is how dated both the content and the style normally tends to be. How are we supposed to relate to a piece of music premiered in 1651? How are we supposed to be invested in the characters and enthralled by the plot, with the centuries of progress, war, and political and social upheaval that separate them from us? This is the challenge that all modern opera directors face: how to make us care.

With a cursory reading of the synopsis, we would find it hard to imagine that *La Calisto* was any different from the hundreds of other 17th century operas based on mythological characters. We have the same lusting gods, bashful nymphs, and vengeful goddesses. However, from the minute I entered the theater, I knew this was not like all those other shows!

Entering the Alumni Concert Hall in the College of Fine Arts, my eyes fell on the giant scaffold that was to serve as a set. One of the biggest problems I have found with modern opera productions is where they decide to set the action. Doing faithful period productions has almost completely gone out of fashion. Rather, directors are trying to transfer the familiar action of classic operas to new situations, and in the process, make us see them in a new light. This sounds fine until you start having productions where the new setting makes absolutely no sense.

To avoid this trap, *La Calisto* completely avoids the problem by not making any overt references to locations or to time periods. The entire action of the opera occurs on a construction scaffold, with different parts of the scaffold being fluidly assigned to different "settings." The costumes of the characters range from the traditional Roman robes of the nymph Calisto, to the tank top and cargo shorts of Mercurio, Jove's servant, to the ripped tights, leather trenchcoat and painfully high stilettos of Juno. This lack of an explicit setting or time period helped the action of the opera to transcend geo-temporal boundaries in a way that really drove home the universality of its main theme: sex. The opera opens with Destiny asking Nature and Eternity to immortalize the nymph Calisto in the

heavens through a constellation. This segues into the story of Calisto, a devotee of Diana, goddess of chastity, who, through no doing of her own, catches the fancy of Jove, the king of the Gods. Even though she spurns his advances, he refuses to take the hint, resorting, with the help of his servant Mercurio, to trickery. Jove takes on the appearance of Diana and, in this new form, commands the love of Calisto.

Meanwhile, Diana is in the middle of her own little love affair with a shepherd named Endimione, causing the wrath of the minor deity Pan who lusts for her. Pan's henchman Satirino, a lascivious half goat half man, tries seducing Linfea, another one of Diana's devotees, who in turn obstructs Endimione's advances. This web of sexual energy woven on stage turns into barbed thicket with the entrance of a wrathful Juno with her whip-bearing furies. Determined to punish her husband's lover, she turns Calisto into a bear. However all is resolved when Jove decides to elevate Calisto to the heavens and immortalize her in the form of the constellation Ursa Major.

As you can see, this wild romp through the sexual underbelly of mythology can satisfy the appetite of today's audiences almost as well as it could back in the mid-17th century. In particular, the seduction of Calisto by Diana (actually Jove in disguise) was quite daring for its time, considering lesbians weren't really

accepted back then. On top of all of this, we also have the angelic early Baroque music of Cavalli, with its seamless transitions from the declamatory recitatives and the virtuosic arias. The singing was divine with the hardest runs executed almost effortlessly!

The most memorable aspect however, was the acting. Whether it was the banter between Jove and Mercurio, the wily cunning of Satirino, Endimione's soulful laments, or Juno's peacock chatting with the orchestra, the opera was filled with tiny moments showing us that these weren't cold mummies, dug up from the dusty tomb of a long forgotten score. Rather, these were living, breathing characters, whose every note was a manifestation of a deeper psychological phenomenon.

The entire time I was sitting in the audience, I couldn't help but be amazed at the intelligence, talent, and dedication that must have gone into the production. In particular, I had to constantly remind myself that the gods and goddesses, nymphs and furies on stage were also students. They also attended classes, took tests, went to parties, and complained about campus food. They reminded me how amazing Carnegie Mellon really is.

Kabir Mantha | Staffwriter



Joshua Brown | SciTech Editor

Calisto, played by Karina Camile Parker, a junior vocal performance major, relishes in refreshing water after a drought.

Tales from Abroad: Finding home in new places

Amelia Britton, having spent the entire year travelling, reflects on what makes a home



Top: Sidi Ifni lighthouse is on the Moroccan coastline.

Bottom: Amelia stands in Prince's Street Garden in the U.K. with Edinburgh Castle in the background.



Photos courtesy of **Amelia Britton**

As the end of the semester approaches (and no, I do not want to think about that), I get more and more attached to Madrid. The more I travel, the happier I am to come back to my “home base” in Spain’s capital. I come back to Madrid exhausted and happy to be back in “my” bed.

As much fun as I’ve had in the U.K. or Hungary or Morocco, it feels good to be navigating a familiar metro system and to know which grocery stores have what I need. That’s what I’ve liked about living in new places this year – I get to know a city, not just visit it.

Since January 2015, I’ve lived in a new place every five months; I’ve gotten pretty good at packing and unpacking. When I finished my sophomore spring, I was nervous and excited to start a series of new experiences; now it’s been a year since I finished my last semester in Pittsburgh. Over the summer, I lived with other interns in Virginia. Last fall, I took classes and worked as an intern in Washington, D.C. This semester, I feel lucky to be abroad in Madrid. My year away is teaching me new things about myself.

My concept of familiarity has changed with my time away. I refer to wherever I stay as my home – I

instinctively say I’m “going home” after class or after I get groceries, whether in D.C., Madrid, or Pittsburgh. I like the feeling after I’ve learned how to use public transport or when I can give someone else directions instead of asking for them myself. As I’ve become a temporary citizen of several new cities this year, each has had its own lifestyle and its challenges.

The challenges seem more evident in Spain, although the language barrier is less daunting now than when I arrived. I’ve become less self-conscious of my Spanish speaking abilities. In order to function, I’ve had to coexist with certain insecurities; these include my American accent (not as bad as others I’ve heard, but still present), my ignorance of Spanish slang expressions, and my Midwestern habit of smiling at people on the street (which has a connotation beyond friendliness here).

I appreciate the lifestyle here in Madrid. I’m learning about the city from my classes, from funny stories that my host family tells, and from the times I explore on my own. I can walk around the city, meet with friends, or take a nice nap. It’s the most relaxed I’ve ever felt in college. In Pittsburgh, friends and school are intertwined. We all live and work and study in the same area, so the separation between school and life is practically nonexistent.

I’ve been thinking of Pittsburgh a lot lately. What does it mean to be part of a community when I’ve been away for so long? I still identify as a Carnegie Mellon student. I consider campus to be one of my temporary homes.

I felt shaken when I learned of the two suicides on campus. Not being in Pittsburgh, I saw the official email without opening it right away. Then I started seeing posts on Facebook, and I began piecing together what had happened. I was heartbroken for my community. I reached out to friends, but I didn’t have much to say; I told them that my heart was hurting, that I couldn’t imagine being on campus – that I was thinking of them. (All true, but also hollow-sounding.) For the first time this semester, I wished I had another Carnegie Mellon student with me in Madrid.

It’s hard to determine whether my perspective has changed this year. I suspect that it has, but I don’t see evidence of it. I suspect it won’t until I’m on the other side, back in familiar territory. For now, though, I don’t want to think ahead to re-acclimation. I want to do everything I can while I’m still in Spain.

Amelia Britton | Staffwriter



Fast 8, Marvel, and video-game movies make news

Fast 8 gets its villain; Marvel & Sony team up for *Spidey* reboot; video game movies pick up steam

Charlize Theron Joins *Fast 8*

The Fast and Furious franchise has been picking up speed with recent installments. After the tragic loss of Paul Walker, director James Wan delivered *Furious 7* with poise and respect, without sacrificing the ramped up action recent installments have given us.

Jason Statham's "Ian Shaw" character has been captured, so the door is open for a new baddie to take over. *Straight Outta Compton* and *The Italian Job* director F. Gary Gray has taken over to helm the next film, *Fast 8*, and Charlize Theron has been brought on to give Vin Diesel and the rest of the "family" some new challenges. Her official role has not been announced yet, but, in a series that trumpets the importance of family and friends, it would not be a surprise if Theron's character has some relation to Statham's.

Uncharted Film Hits The Skids

I wrote an article a while back about the emergence of video games getting the big screen treatment and the plethora of titles coming down the pipe. With video game stories becoming more intricate, characters having deeper backgrounds, worlds becoming more detailed and beautiful, and gameplay becoming more cinematic, it is no surprise studios are lining up to create new big budget franchises from these fan favorites.

Assassin's Creed is the first major title coming to theaters. Coming to theaters on Dec. 21, the film stars Michael Fassbender (*Steve Jobs*, *X-Men* series). In the end, though, we are still talking about Hollywood, where anything can happen and good stories can be halted for any reason.

One of the most popular and anticipated titles is *Uncharted*. Game developer Naughty Dog has been

Spider-Man steals Captain America's shield in one of the most widely shared scenes from *Captain America: Civil War*'s trailer.

working with Sony Pictures to develop the script, but game director Neil Druckmann had some disappointing words on the subject at a recent event for the new *Uncharted 4: A Thief's End*. In an interview with IGN, Druckmann said: "Every once in a while they'll come in and they'll present to us: here's the script, here's what we're thinking. We'll tell them what we think works, what we think doesn't work ... but we haven't seen anything in a while."

"Our approach is just to steer them back to those relationships," Druckmann added. "The most important part to get right is Nathan Drake, Nathan Drake's relationship with Elena and Nathan Drake's relationship with Sullivan. If you don't get that right, I don't think the film's going to work. If you get that core right, there's a chance it could work." It is unclear what the hold up is regarding the film, but if the studio is wholeheartedly dedicated to getting the character of Nathan Drake correct, that may take some time and shows the studio cares about delivering a film fans will appreciate. *Uncharted* is currently slated to hit theaters on June 30, 2017.

Marvel Characters Set to Cross-Over in *Spider-Man* Series

It has been over a year since Marvel Studios and Sony Pictures announced their historic partnership to "share" the Spider-Man character on the big screen. After audiences buried *The Amazing Spider-Man* series under harsh reviews, Sony restructured their schedule, hired young actor Tom Holland, and partnered with superhero film juggernaut Marvel to revive the web-slinger's cinematic story. We have gotten short glimpses of Holland as Spider-Man in the trailer for *Captain America: Civil War* but does the door swing both ways? In an interview with Entertainment Weekly, Marvel Studios president Kevin Feige confirmed, "[Spider-Man] is in the universe now, and the fun of the universe is that characters go back and forth." Sony has set their Spider-Man solo film for release on July 7, 2017 with Jon Watts (Cop Car) directing with Feige and former Sony executive Amy Pascal taking on producing roles.

Ryan Labarbera | Staffwriter



Photo courtesy of skm via YouTube

moviesinmconomy

The Big Short

Saturday, April 16
8 p.m.

Director: Adam McKay
Cast: Ryan Gosling (Jared Vennett), Rudy Eisenzopf (Lewis Ranieri), Christian Bale (Michael Burry)
Rotten Tomatoes: 88 percent

The Big Short tells the story of the 2008 financial crisis from the point of view of eccentric hedge fund manager Michael Burry, played by Christian Bale. Picking up on the instability of the housing market, based on the high risk and low return subprime loans being given out, Burry devises an audacious scheme to profit from the impending collapse. Using Burry as a subject, *The Big Short* provides a deep look into the subprime mortgage crisis and the collapse of 2008. In the process, *The Big Short* does a spectacular job of informing the viewer about the dangerous economics that led to the crisis, while painting a dirty, if somewhat caricatured, picture of Wall Street greed.





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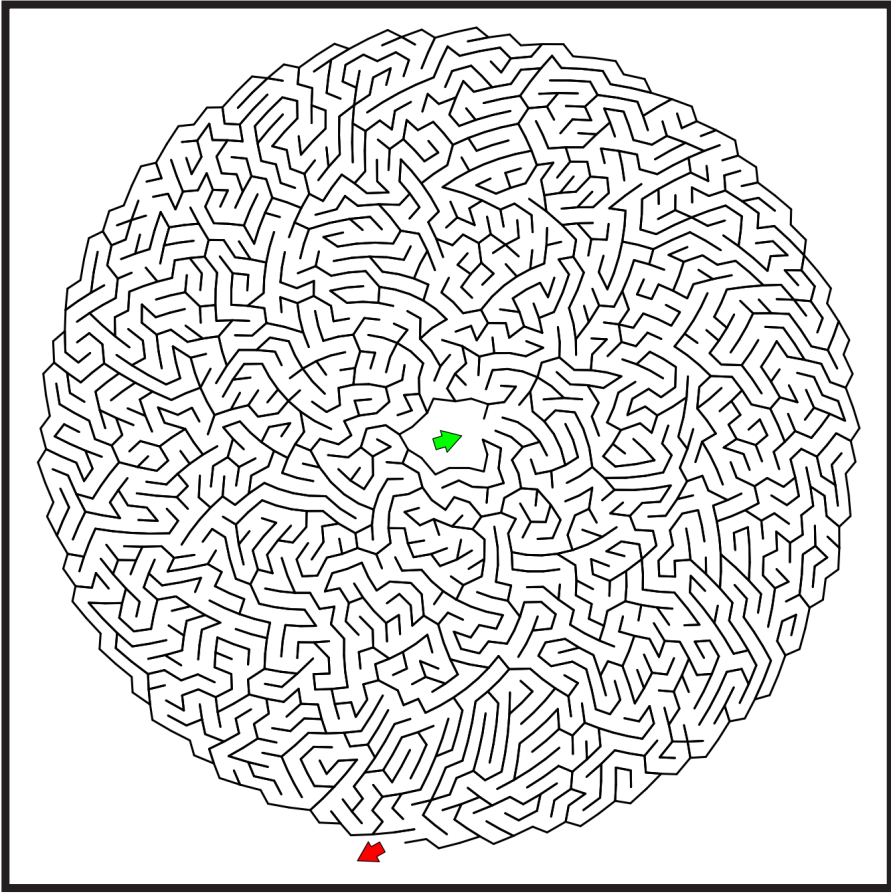
<http://clayyount.com/raecomics/>

Sudoku Puzzle: Super Tough Difficulty

7			8				1	
6			3				4	
		9			1	6		
2	8		1			3		
		1			6		8	2
		7	4			9		
	5				9			1
	9				8			4

Sudoku courtesy of www.krazydad.com

Maze: Tough Difficulty



Maze courtesy of www.krazydad.com

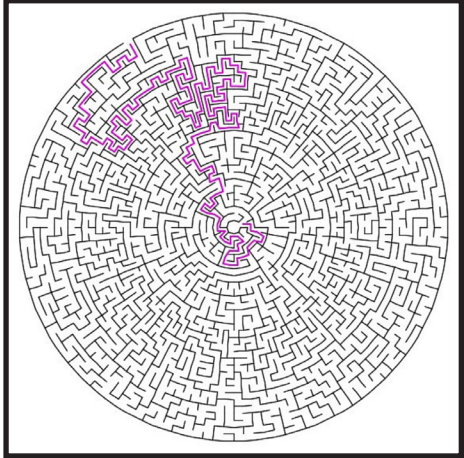
Solutions from April 4

1	2	3	4	5	6	7	8	9	10	11	12
A	Z	U	R	I	C	O	M	E	P	S	S
13	14	15	16	17	18	19	20	21	22	23	24
U	N	I	T	E	N	O	W	A	Y	O	L
25	26	27	28	29	30	31	32	33	34	35	36
Z	O	N	E	D	E	F	E	N	S	E	P
37	38	39	40	41	42	43	44	45	46	47	48
I	N	S	P	I	R	E	S	P	I	C	E
49	50	51	52	53	54	55	56	57	58	59	60
A	I	R	E	O	D	O	R	S			
61	62	63	64	65	66	67	68	69	70	71	72
R	E	V	I	L	E	T	O	O	K	O	N
73	74	75	76	77	78	79	80	81	82	83	84
E	X	I	T	S	C	A	I	N	E	C	O
85	86	87	88	89	90	91	92	93	94	95	96
S	A	S	S	F	A	I	L	S	R	E	N
97	98	99	100	101	102	103	104	105	106	107	108
T	M	I	M	O	L	L	F	A	R	C	E
109	110	111	112	113	114	115	116	117	118	119	120
O	R	I	O	L	E	B	I	T	T	E	R
121	122	123	124	125	126	127	128	129	130	131	132
A	N	N	E	X	A	R	S	O	N		
133	134	135	136	137	138	139	140	141	142	143	144
M	A	T	T	E	C	H	E	R	E	D	
145	146	147	148	149	150	151	152	153	154	155	156
P	O	E	D	O	L	L	A	R	S	T	O
157	158	159	160	161	162	163	164	165	166	167	168
E	M	S	I	C	I	E	R	S	T	A	G
169	170	171	172	173	174	175	176	177	178	179	180
D	I	T	N	O	U	S	E	E	U	R	O

Crossword

9	8	3	7	1	5	2	6	4
7	5	1	2	4	6	8	3	9
6	2	4	8	3	9	7	5	1
1	9	8	3	6	2	5	4	7
2	4	6	5	9	7	3	1	8
3	7	5	4	8	1	9	2	6
4	6	7	9	2	3	1	8	5
5	1	2	6	7	8	4	9	3
8	3	9	1	5	4	6	7	2

Sudoku



Maze



Horoscopes

Some tips for this week!

aries

march 21–april 19

You’ve just begun the long path ahead. Keep moving forward!

taurus

april 20–may 20

Keep an eye out for something special! Opportunities are just around the corner.

gemini

may 21–june 21

It’s always good to have fun, but don’t forget your other duties.

cancer

june 22–july 22

There are exciting times ahead! Make the most of your week.

leo

july 23–aug. 22

Your friends know how much you care. Don’t be afraid to reach out and let them know your feelings.

virgo

aug. 23–sept. 22

Your future holds obstacles, but nothing you can’t overcome.

libra

sept. 23–oct. 22

There are lessons to be learned in everything you do.

scorpio

oct. 23–nov. 21

Step back and take a look at the world around you. You’ll be surprised at what you find.

sagittarius

nov. 22–dec. 21

There are some issues that just need to be left alone. Things will work out themselves.

capricorn

dec. 22–jan. 19

The week needs you to give 110 percent, but don’t forget to take care of yourself.

aquarius

jan. 20–feb. 18

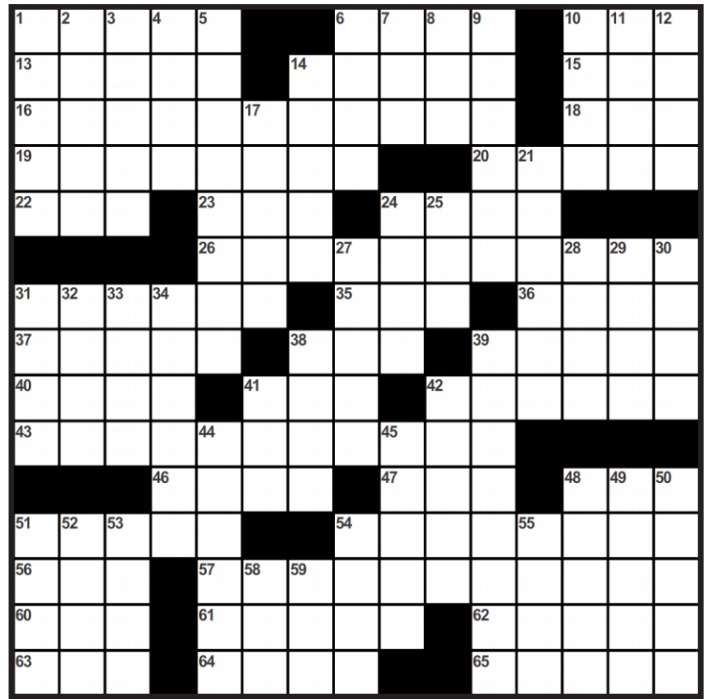
Sometimes the best laid plans just don’t work out. Don’t worry too much!

pisces

feb. 19–march 20

Don’t be afraid to speak out or ask questions. Knowledge is power.

Sarah Wang | Comics Editor



Crossword courtesy of FreeDailyCrosswords.com

ACROSS

1. Ear-related
6. French military cap
10. Nonstick kitchen spray
13. Pipe-unclogging brand
14. “Expletive detected” sound
15. Air hero
16. Significant other
18. Inform on the mob
19. Outside the lab, say
20. Port near Gibraltar
22. AKC category
23. Soul singer Cooke
24. Online ‘zine
26. Citrus-flavored soda
31. Like pieces in a kit
35. Cyclotron bit
36. Art deco great
37. One to vie with
38. Come- ____ (lures)
39. Edgar who painted ballerinas
40. Birthstone for many Libras
41. Female rabbit
42. Attacks from all sides
43. Publisher of author-financed books
46. Marine One rider (abbr.)
47. Fleur-de- ____
48. Emissions-monitoring org.
51. ____ pork (Chinese dish)
54. Fortified Portuguese wines
56. Half a sawbuck
57. 1962 hit for Bobby “Boris” Pickett
60. Senate vote
61. Often-quoted line
62. Take a sip of
63. Curator’s concern
64. ____ -do-well
65. Lipstick mishap

DOWN

1. Fess up to
2. Heavenly prefix
3. Like Seattle’s climate
4. Alamo capturer Santa ____
5. One in need of salvation
6. Abstract artist Paul
7. Extra-side, on a shoebox
8. Dispenser candy
9. Emetic drug
10. Cowpoke’s pal
11. Trendy berry
12. French city on the Moselle
14. Myanmar, formerly
17. A bit less than a liter
21. Is in sync
34. Ids’ complements
25. All chess pieces (even the queen!)
27. San Fran griddier
28. Twist the arm of
29. ASAP, in the ER
30. Pianist Dame Myra ____
31. Alta. or Ont.
32. Co-host of Strahan
33. “Mrs. Bridge” author ____ S. Connell
34. Muslim leader
38. Klutz’s cry
39. Napoleons, bombes, etc.
41. Henna rinse, e.g.
42. Oft-forgotten part of a 45
44. “The buck stops here” president
45. Tickle pink
48. Wipe away
49. Shells, but not BBs
50. “My name is ____ Lev”
51. Yucatan dweller
52. Ride-requesting app
53. Do some ushering
54. Roman Cath. title
55. Mosque leader
58. “To a ...” poem
59. Dundee denial

spirit fashion show: paladin.



Photos by **Brandon Hong** | Photo Editor

SPIRIT's annual fashion show took place on Saturday, April 9 in Rangos Ballroom. This year, it had its most diverse group of people ever working as models, designers, and performers.





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