

THE ELECTION EDITION



Aisha Han/Junior Photographer

Featuring excerpts
of interviews from
this year's presidential
candidates

Make sure to read full
interviews at
www.thetartan.org/special

Elections Timeline 2016

DATES TO KNOW FOR STUDENT GOVERNMENT ELECTIONS

001.



March 22 and 23 - Debates

PARTICIPATE IN DEMOCRATIC DELIBERATION

In addition to questions prepared by The Tartan, there will be an audience participation section where students will be able to ask candidates to address the students' concerns directly.

002.

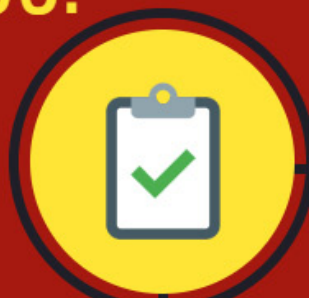
March 31 – April 4 - Voting

MAKE SURE YOUR VOICE IS HEARD

Log onto <https://stugov.andrew.cmu.edu/elections/home> at any time during that window. The voting option will come up when polling opens. Make sure to vote for all three executive positions, as well as your college's Student Senators!



003.



April 6 - Ratification

SENATE RATIFIES ELECTIONS

Senate will meet to make sure the elections were fair and the winner is legitimate. If they deem the elections were held properly, the results will be official and the elected officers will take their positions to begin the next academic year.

FROM THE EDITORIAL BOARD: VOTE!

Last year, Carnegie Mellon students broke records with their turnout in the student government elections. With an increase of 8.32 percent, 26.22 percent of all undergraduate and graduate students cast their vote for candidates for student body president, student body vice president for finance, student body vice president for student organizations, and Undergraduate Student Senate.

Calling Carnegie Mellon students apolitical is almost a cliché at this point. It's common knowledge that a large chunk of the student body is here solely to get a good education and a good job, and that's fine because that's what we pay for. But this inward-facing portion of the population is beginning to lose out to a quickly growing group of passionate and vocal students. Our student body has the choice to take advantage of the global platform Carnegie Mellon sits on and the resources that come with it. In many cases, this is an opportunity to create change, and more and more students have been taking it.

The Tartan hopes that this trend continues. If you stop, look, and listen while you walk past Doherty Hall or through Wean Commons, it will be so clear how many people have a cause they believe in. The community has been especially mobilized by controversial social issues brought up by national elections. The frightening future that many of us have been forced to consider has been a wake-up call. As our rights are threatened, we pull them closer to our hearts. We've spoken up about issues that affect us to enact change, such as Title IX. This can only inspire more change if we keep up the momentum and live our values.

Every vote has the power to change something and the chance to show student government what the student body wants. We hope that more Carnegie Mellon students will seize that right this year, next year, and every year after that.

The results of each year's election affect every student. Student

Government executive and senators have a tremendous say in important issues like the student health insurance policy and even the tuition increase. In addition, anyone involved with one of 346 organizations recognized on The Bridge is affected by the decisions that the vice presidents for organizations and finance make everyday, such as space and money allocations. With the university at such a turning point, pumping out influential changes almost every week, we need elect a Student Government that we can confidently count on to represent the interests of students.

Our democracy owes us the right to vote, but we owe it to the university to cast an educated vote. Students should do the research on candidates' platforms, attend the debates to get answers, and think critically about which pairs can lead us toward a better future. Don't just vote for your friend's friend or who has the prettiest website. Make your vote count by casting a vote that you really thought about.

As our interviews in this issue should reflect, this year's candidates have a lot of ambitions for the next academic year. You can visit the Elect@CMU website at <http://www.stugov.andrew.cmu.edu/elections> to read everyone's platforms. But if you want to do more, you can attend the debates that The Tartan will host Tues., March 22 from 7–9 p.m. in McConomy for the presidential candidates, and Wed., March 23 from 5–6:30 p.m. in the Adamson Wing (Baker Hall 136A) for the vice presidents for organization and finance candidates. We will also be building in time for a town-hall style question and answer portion. If what you learn excites or concerns you, you can contact candidates to have discussions. But here's the bottom line: you should vote.

You can cast your vote on the Elect@CMU website beginning at 8 a.m. on March 31 and ending April 4 at 6 p.m., and Senate will ratify the results. We at The Tartan hope to see record-breaking turnout.

Compiled by Zeke Rosenberg/Senior Staff



Vaasavi Unnava and Aaron Gutierrez to push limits of discussion

Sarah Gutekunst (Publisher, The Tartan): Why are you running and why should students vote for you?

Vaasavi Unnava (junior economics major, student body presidential candidate): I think a big part of it is that, as with any position on campus, you really have to make an active decision, especially when it’s a position that’s generally afforded a lot of power. And so, thinking over it, when I came to the realization that I wanted to run for student body president, it was because what I want to achieve on campus, in terms of making an infrastructure so people can take ownership and make their lives better in the community, was something that could only be achievable with the position I wanted to run for.

Aaron Gutierrez (junior computer science major, student body vice presidential candidate): Over my time at Carnegie Mellon I’ve seen many different aspects of how the university operates, and in doing that, you really understand a lot of the things that go on better. I see this as an opportunity to bring that understanding to a much larger percentage of the population. I see this as an opportunity to get everyone more informed and more engaged with their campus, so that they can see how all the pieces fit together.

SG: Can you explain the President’s Initiative?

VU: Absolutely! Sorry I just get really excited about it. [She laughs.] We [were] thinking about all of these really big cultural issues that are happening on our campus — sexual assault and relationship violence prevention, academic integrity, mental health. Every time, we discuss these things, but then we don’t really do anything about it after that. So the heart of the President’s Initiative is creating some sort of infrastructure, almost an incentive structure, so that clubs and organizations can look forward and say ‘we know that this is a problem and we’re going to do something about it.’ That involves pushing a meeting called “the board of directors,” which is typically reserved for executives of student organizations, to the front of the year. Having all the students come together, identify which problems they want to work on for the campus community, and form partnerships across clubs and organizations, so that they can actually do something within their clubs and organizations to create a university-wide conversation within the student body. At the end of the year we’re looking to reward the clubs and organizations that have done the most innovative things with some sort of monetary benefit to show we’re excited for the positive changes they’ve brought to the community.

SG: How do you plan to mobilize the community more fully, to get it to trickle down to the corners that it doesn’t usually reach?

AG: I think a big part of that comes from the fact that the President’s Initiative targets organizations, which for most people is one of the most formative parts of their college experience. Everyone is involved with academics, but that’s not really the defining part of it. So I think engaging people at the organization level is where people are excited to be doing whatever they’re doing, and it’s a way to engage the broader campus community. You’re not going to go to a presentation in the economics department with the same enthusiasm that you would go [to] Dancer’s Symposium. It gives an opportunity to engage students where they’re excited.

VU: The President’s Initiative is an attempt to meet students where they are. Trickle down is having discussions about it, which is

what we’re doing already, but what we want to do with the President’s Initiative is to say ‘look we’re done with that because it’s not working. So why don’t we just take ownership ourselves.’

SG: So in your Facebook post declaring your candidacy last month, you said “Let’s forget how we always used to do it.” What things do you want to leave in the past?

VU: So I think part of the resonance that we’ve brought into the answers so far is this idea of discussions. Not because I don’t like discussions. I’m in Student Life, we talk all the time. But at the heart of it, what ends up happening is we lose this bridge between what we’re doing in our major and what’s happening in the real world. We do stuff in class, but then we’re like ‘Oh my god. One in five women are sexually assaulted on this campus. Too bad I can’t do anything about it,’ which is really not even a little bit true. So how we used to do it was to sit in these two parallel worlds — the first in which we are students and the second in which we are members of community. But in reality we’re both. That’s what I want to forget: this idea that we’re separate selves. We are individuals experiencing the world and trying to make it better.

SG: How do you envision your weekly Tartan column? What do you want to communicate to the community?

AG: I think that’s a great opportunity to just describe the work that goes on that often times isn’t part of the students’ conversation. Issues we’re facing right now, like there’s a shortage in funding for the third floor of the [Cohon] Center to make that space adequate for students, [and] the issues that come up over time that show what we’re doing and why we’re doing it and show that we’re giving these decisions we’re making consideration from the perspective of a student.

VU: A really good example, that’s perhaps more sexy, is back [in] our freshman year, they tried to get the student body president paid through an honorarium. First of all, I’m 100 percent



Barbara Samaniego and Raheela Ahsan on health and safety

Zeke Rosenberg (Senior Staff, The Tartan): Let’s talk about policies. There are some that struck me as difficult to enact from the presidency. The first is Health Services. Affordable service and better hours is a common goal, but how do you plan to actually pursue that?

Barbara Samaniego (junior economics and professional writing dual degree, student body presidential candidate): That’s something we have to petition. We have to petition for a more effective use of Carnegie Mellon health insurance. Instead of that insurance going towards things that are unnecessary such as waiting room water cups, it would go towards free STD testing, free birth control, stuff like that, which students actually need.

Raheela Ahsan (sophomore economics major, student body vice presidential candidate): I know that health services, at least in the past year, has seen a change. They hired a new desk attendant and reshaped it.

BS: However, there should be a good reallocation of the funds that Health Services has.

RA: We want to be able, as president and vice president, to talk to administration in seeing whether we can get med students from [University of Pittsburgh] as part time jobs or some off-time nurses who can’t work weekdays to come in on weekends so that even

if we have limited hours at Health Services on the weekends, at least it’s open, because currently it’s not.

BS: So there would be at least one person to walk in and schedule an appointment with. Even an EMS student could sit there for five hours; you could pay them by the hour; Pitt students could view it as an internship, things like that. That’s a simple way of figuring out if that student needs further medical assistance or if that student just needs ibuprofen. I’ve had to call EMS on the weekends because I had a concussion. They just sent me straight to the hospital, which is completely unnecessary and really expensive.

RA: The pressing issue is the cost; maintaining it, getting workers in on the weekends. I personally don’t think that’s a big issue because it’s not that there’s a shortage of funds being allocated towards Health Services. That’s one of the biggest things everyone’s tuition includes — insurance and student safety. A lot of that is allocated towards [Counseling and Psychological Services (CaPS)] and multiple other things and both of us personally feel, since we both have studied economics, that there probably is some throwing away of funds on useless things when you could channel them into working hours for keeping the facilities open on the weekends. You would have to go through the administration, but that would give us more power as Student Government president to do that.

BS: That was also one of the big reasons we wanted to push for Entropy+ being open 24/7. I know that if you pay with a credit card, then the university loses money, but we want to push for them to allow students to pay with cash and get some discount on it and then, because of the money that the school would save with that, they could have Entropy+ open 24/7 so that students would have access to medication on campus in a central location and food in a central location. If students are sick at 4 a.m. and they need to get ibuprofen or a fever reducer or they have allergic reactions and they need Benadryl, they have to be able to go somewhere on campus to get water, Gatorade, Tums or whatever to feel better. They just do not have access to anything like that until 7/11 which is all the way in Oakland.

ZR: Are there any issues you’d like to emphasize?

BS: Another big one that directly addresses student unity is the graduate student mentorship program and graduate student representation on cabinet. We want to inform our cabinet with graduate student representatives because a lot of the needs of the graduate students aren’t being heard and addressed. In general, the graduates feel very separated from the undergraduate population as though they don’t really have a central place. They have a lounge, but it’s not like the [CC] Black Chairs. They have problems with places to put their kids during the day and parking and none of those needs are getting addressed by Student Government or pushed towards the administration because they are so left out and forgotten at the school. This is a huge pool of people who, if we bring into our community more, could help us in return.

A lot of people at Carnegie Mellon don’t understand what they are doing. They might need guidance, support, and a mentor to look up to even if they are not in Greek life or an organization or a mentorship program. A graduate student population that exceeds the undergraduate student population means that each graduate student could be paired up on a voluntary basis and then serve as a mentor for the an undergraduate student’s time

against that idea. But the biggest problem is that students didn’t hear about it. So I want to take these issues that are really big in Student Government, and say this is our position, this is what we want to do about it. Because after spending so much time in Student Government, I can promise you every week there is something new to talk about. It goes from working and deciding what the new student health insurance plan will be to paying student government officials.

SG: Awesome! We can talk about deadlines later. I just have one last question, which we’ve kind of touched on. But how do you plan to use your previous experience in Student Government?

AG: So I think a lot of that comes down to knowing what’s reasonable and what’s achievable. We’ve seen what’s been able to be done in the past and the discussions that happen with university officials. We have a good grasp on how processes work to achieve not only what we want to achieve but what the student body is pushing for.

VU: I think it’s important to note that we have these really lofty ideas, but we’re not being unreasonable in believing that they could happen within a year. Part of the reason for that is we have been in Student Government for so long so we know what’s achievable. But also have you seen that Jerry Seinfeld/Barack Obama interview? There’s this one part where he asked President Obama what it’s like working in government. President Obama said it’s like playing football. He was like ‘What?’ But the heart of it is, you spend all your time building up your resources so when there’s an opening you take it. And I think a lot of the flaws in SBP campaigns, not just this year but in previous years, is that they don’t try to find openings, they just assume they’re there. We know when to find the openings; we know how to stock our resources up so that we’re ready to take advantage of them when they come. Because of that our ambitions are based in a sort of realism rather than fantasy.

at Carnegie Mellon. They would have someone to automatically be friends with and to look up to and ask questions. Another big portion of our platform was sexual health at Carnegie Mellon.

RA: Our main focus is probably student health and safety.

BS: We were looking into various ways of decreasing the rate of sexual assault, which has been growing at Carnegie Mellon for the last three years and having an anonymous support network where students could reach out to and get help with if they are sexually assaulted and make the process of reaching out and reporting sexual assault easier. We do have a system right now [but] it’s not fully anonymous and they do reserve the right to press further action and investigation [so] they don’t remain anonymous to that person. If there was an anonymous hotline that people could call outside of CaPS — because they don’t actually answer — it would greatly benefit those students.

RA: Other candidates such as Mike and Olivia’s platforms are centered around issues like this and mental health as well but, unfortunately, they haven’t offered specifics as to what they might fix or what they were going to do, they just pointed out problems.

Personally, as someone who has been a victim of sexual assault, the reporting of that is flawed. Firstly, everyone tells you to go to CaPS, so when you go to CaPS you have to sign up. Then you have the assessment meeting, which is completely useless because you just want to talk to someone and have it resolved right away. Finally you schedule the actual meeting and then it’s a different person and in my experience, I had to go out of my way to remain anonymous. They have a semi-private obligation to report. It would be somewhat anonymous until the charges go through, but then they would have your name on it. I know with CaPS, it’s not anonymous at all, which is a very awful situation because I know other people who have been in worse situations and that creates a lot of difficulty in reporting and taking care of that.

We have Campus SafeWalk and we have the Survivor Support Network (SSN). A lot of people don’t know what those are and a lot of people did not know SafeWalk was a thing. We spoke with our friend who was on SafeWalk for two years and he said he never had to walk anyone home because no one requested it.

BS: I find that really weird because a random person has stalked me down Fifth Avenue and I feel like if I had known that such a service existed I probably would have called them instead of calling my friend. It’s so weird that these services exist but students don’t feel safe. They feel scared of reporting because of this apathetic cultural climate and they don’t want to report sexual assault cases because they don’t want to get the fraternity in trouble, they don’t want friends to hate them, they don’t want to be viewed as slutty or drunk or a bitch or anything like that. They always are and that’s a Carnegie Mellon-specific problem and a climate-specific problem.

ZR: Is there anything you want to add?

BS: To wrap up, all of these link back to student unity and all of them link back to creating a better cultural climate at Carnegie Mellon, helping students understand each other better, helping students see more services that are offered, breaking down physical barriers that divide students, and creating more collaboration across disciplines both physically and through our cultural climate.



Mike McCaffrey and Olivia Cannizzaro focus on students

Claire Gianakas (Editor-in-Chief, The Tartan): How did you get interested in running for these positions?

Olivia Cannizzaro (sophomore mathematical sciences major, student body vice presidential candidate): My freshman year, right off the bat, I was interested in student government and last year I ended up working on the campaign team of [junior mathematical sciences major] Connie Yang, and [senior information systems major] Evan Wineland. Helping them out, I got to see a little bit more of what it was like, and I got really excited about it. I figured that the way that I could most directly impact the university and do something really meaningful would be from the position of student body vice president.

Mike McCaffrey (junior statistics major, student body presidential candidate): Unlike Olivia, I didn't know I wanted to become involved in student government immediately. I was brought into Student Senate and later joined the Joint Funding Committee (JFC). Later that year, I was brought on as campaign manager for the campaign of [fifth year senior electrical and computer engineering and business administration double major] Ian Glasner, and [health care policy masters student] Shalini Ray. I later became their chief of staff, so I really got to see what it was like to be in [a] cabinet. What really motivated me to run for student body president is seeing how a lot of different students have all these different struggles that the university doesn't really attend to, [either because they're] turning a blind eye or they might not have the opportunity to address it.

CG: Moving on to health, another big point in your platform, can you talk about the need to address health on campus and your proposed changes?



Aisha Han/Junior Photographer

MM: One of the big issues that Carnegie Mellon faces is a lack of support. A lot of people don't know who to turn to when they have problems. It's not easy to turn to friends when you have academic issues or mental health issues because there's a culture — and I hate to use the word stress — but stress culture, where everyone tries to hide that side of themselves. We've come up with initiatives to help people share that side of themselves and actually enjoy the university [a] little bit more.

OC: In terms of sexual health, one of the things we want to do is continue expansion of the [Survivor Support Network (SSN)] by encouraging people who are in leadership positions on campus to get SSN certified. Similar to what Student Senate is doing right now with their mental health awareness campaign, we would want to definitely support and promote more things about [Counseling and Psychological Services (CaPS)] and about services available on campus. We want to hold more mental health certification events on campus and make that something people are aware of. We want to establish a peer-to-peer 24/7 hotline, which would require reaching out to students to see who would be willing to be a part of it.

CG: With regard to unity, you talk about improving rankings and our alumni network. Can you talk about your specific ideas regarding these issues?

MM: We are both part of Proud to Be Plaid, which is a committee that works to raise awareness of what Carnegie Mellon actually does for its students. Since we see these issues from a Proud to Be Plaid perspective, we're able to identify some catalysts for further unifying Carnegie Mellon as a student body. Some of those initiatives include coordinating mixers between different

majors and bridging these big gaps between, say, computer science majors and design majors, because it's not that they dislike each other, it's more that they don't know how to meet each other.

OC: When you foster this idea of unity among students, students become more excited about their university. That's something that factors into our national rankings. It's something that improves our alumni network. Suddenly people are getting better jobs. People are better connected. Another thing we want to establish is a sort of overall Carnegie Mellon pride day, potentially like a second Community Collage. People are all getting great degrees, but they're also doing things that they're passionate about. It's really impressive and it makes you excited about the sort of community that we have here.

CG: Your campaign website notes that you “know what kinds of ideas are feasible for the community.” Can you explain how you have worked to ensure that your platform is attainable?

OC: We ensured this mainly through the administrative members that I've been mentioning. In terms of dining, we sat down with Pascal Petter, and he told us that these are all things that are possible. Are they necessarily possible within a term? No, but they are things that we can absolutely promote and get the wheels moving on so that they do happen. We spoke with people in Student Activities and Student Life about doing unity things and seeing if those are feasible, and they told us they were. I sat down with a member of Student Senate who told me about the different initiatives they are pushing that align with ours, and he said that they do have the resources and that with our support it would be something that's possible to accomplish.

CG: What do you see as the biggest thing that sets you apart from the other candidates running for these positions?

OC: The reason that I am really excited about this is because it's something that I'm passionate about. I want to change the idea that people don't know who the student body president and vice-president are, that the student body president and vice-president are not interacting with the community, and that people don't know how to get involved. I think we really have the opportunity not only to push our initiatives and do something really important for this campus, but also to make people feel involved in the student government process. Because this is something the two of us are actually passionate about, I think something that sets us apart is just how excited we are to do something good for people.

MM: I think one of the differences for us is how approachable we are. We've talked to people of all different ages and all different backgrounds and really gathered feedback that way, and it really takes a lot of energy to do something like that. Like Olivia said, it would drown you unless you're actually passionate about it.

OC: And a lot of teamwork, which is another thing that I think sets us apart.

MM: And that's probably the biggest difference, our team. We have a fantastic team again spanning all these different ages and they already are super passionate about different issues and have latched onto one platform initiative or another.

Trevor Hadick and Micah Rabin seek to improve accessibility

Zeke Rosenberg (Senior Staff, The Tartan): Okay, let's move onwards to your platform. The first thing I wanted to ask about was transportation and bike sharing. What form of bike sharing do you envision? How is that going to end up working, and what does that look like in your platform?

TH: The Student Body Executive Branch started this conversation in the fall because that is when we give a recommendation for the transportation fee. Parking and Transportation brought a proposal to us, and they said, 'Hey, the University of Pittsburgh is looking into getting into bike sharing. We want to know if you are interested in this being an option for students. We don't have a lot of information, but should we investigate?' Unfortunately the Executive Branch said, 'No, we don't think we should.' I was the sole voice that said 'yes, let's investigate, let's gain more information.' This isn't a 'yes, we are going to do this.' This isn't 'yes, we're in.' This is, 'we don't have enough information to make a decision right now.' The company was just reaching out to us and the University of Pittsburgh to get where we stand.

We recently met with the Director of Parking & Transportation series, Michelle Porter, to talk more about what the future looks like. The University of Pittsburgh is working on with them, so I told Michelle to loop back in on that discussion to see where things are at. We're trying to lower the price. Their initial idea was that we would pay the fee for each individual person, but we said that's impossible. That would cost us so much. So when we met we told her to continue to investigate we need to get the price much lower. I know that the University of Pittsburgh wouldn't be on board with paying per person either, so the company will need to think of an option, maybe different packages and things like that. So, the bikes that we're talking about are the —

MR: CityShare. Another thing about that, one of our main concerns when we were speaking with her was where the bikes are placed around the city. You know, are they accessible from our campus? If the only one is in Shadyside then no one is going to use it. And so she sent me a map with where all the bikes are, and there are a couple in Oakland but then she said that she would speak with the company as well and in negotiations with Carnegie Mellon and the University of Pittsburgh getting into this bike sharing program then add more bikes in Oakland.

ZR: So moving on, a big portion of your campaign it seems has to do with diversity. A lot of these things are unconscious biases. What can we expect to see that you think will improve the diversity of both people at Carnegie Mellon and the organizations here?

MR: Basically, the way our cabinet works is we have a director for each of our platform points or initiatives. Brooke Carter, who is our Director of Diversity, has been working really hard and meeting with lots of different administrators, who Trevor can talk about, to really push for that. Then she will bring information back to us and then also bring information back down. It's a really great system that we've created to ensure that we have all the information and we're not going into things blind, but also the students feel like they have a voice and that it's getting to us directly through Brooke.

TH: To build on that as it relates to organization and their diversity and inclusion, a lot of the positive feedback that we heard from Summit was that organization leaders got to talk to other

organization leaders that they had never gotten the chance to talk to. People were able to have an honest conversation about 'people don't come for this reason' or 'this is how your organization is portrayed.' I think that's the first step. A lot of organizations are very concerned about [being] inclusive, but sometimes they don't know how. Sometimes they don't know that to the campus they feel exclusive. A lot of organizations leaders know me and respect me and bringing those together would be really good as it relates to student organizations.

As it relates to the campus, so far this past year we've done a lot of more of a presentation style, but there's not enough well-timed discussion times. I know one point where people wanted to have a lot of discussion was after the Sexual and Relationship Violence (SARV) reports came out. There was not discussion until two weeks later, and people wanted a lot of discussion that night that it was sent out. Something we've already vocalized about when they release the DASH survey about diversity and inclusion [is] that the discussion needs to be that night because that's when students want to talk. We have a lot on our plates. We'll forget two weeks from now. Having discussions that night is a big thing. There are more surveys in the works. Moving away from this presentation style that we do a lot of for diversity and inclusion.

ZR: The second thing about diversity is your LGBT+ initiative. To me a lot of these things occur with physical space and where it is safe to be a LGBT+ person. Could you tell me how your LGBT+ initiatives will work?

MR: So he chairs the committee University Center Allocations Board (UCAB) and I'm the assistant chair for it, so we have been working very closely with the new construction on the

University Center. One thing that we made sure is happening is that there are all-gender inclusive bathrooms in the new section, and we are working on getting it in other buildings on campus. That's one of our biggest initiatives when it comes to that, and making sure that LGBT+ people feel safe wherever they are on campus, along with the new housing initiative in Morewood that is offering people who identify as genderfluid or identify as anything they feel and want to live in an all-gender inclusive space the option to do that. So, those are our two big points.

TH: And to build on that, Student Senate has also formed an ad hoc committee that is also working on these things. So we are partnering forces with them. The [Cohon Center (CC)] has been a great step forward in ensuring that there were all-gender bathrooms. But looking forward one of the major things is having a consistent labeling of bathrooms or any spaces in general. I believe it was West Virginia had some, I don't want to call them riots, but there were some unhappy students because of offensive signage that was used. So being [as] proactive as we are creating these spaces and ensuring that signage is appropriate and not offensive and that it's consistent across campus.

Right now it's practice to have an all-gender restroom in each building, but there's not actually a policy for that. So although it's good to have practices like this, it's better to get them in writing. That's also something that we're discussing and working with [Dean of Student Affairs] Gina [Casalegno] on. Some of the difficulty with that is that there's a specific number of bathrooms per building based on size and all that, so it's ensuring that we don't put in a policy and then it there's a small building put up it doubles the cost. So we are trying to be aware of all of those things, but that's where those initiatives are going forward.



Zeke Rosenberg/Senior Staff



Aisha Han/Junior Photographer

Make your voice heard this election season at the

STUDENT GOVERNMENT DEBATES

President and Vice President:

Tuesday, March 22
7 - 9 p.m. in McConomy

**Vice President for Finance and
Vice President for Organizations:**

Wednesday, March 23
5 - 6:30 p.m. in Adamson Wing (BH 136A)

Hosted by The Tartan



Aisha Han/Junior Photographer

CMU wins second place in CME Group Trading Challenge

VALENE MEZMIN
News Editor

The 2016 Chicago Mercantile Exchange (CME) Group Trading Challenge took place earlier this year. It is an annual, four-week electronic trading competition where teams of undergraduate and graduate students partake in a simulated environment that immerses the contestants in a professional trading platform where they engage in trading a variety of CME products. This year, 1800 students from 30 countries around the world participated in this competition. Out of almost 500 teams, Carnegie Mellon's very own team Scotty Dogs of the Dow came in second place.

Scotty Dogs of the Dow is comprised of first-year business majors Preston Bryant, Kimberly Zhang, undeclared first year student in Dietrich College in the transfer process to Pepper Business School Grant Glosner, sophomore electrical and computer engineering major Samuel Lee, and sophomore mathematical sciences major Varun Singh. Over the course of the two week final round of the competition, the team managed to create a final simulated account balance of \$443,430.00, which landed them in second place and made them one of the four winning teams. In first place was Team Alpha from Nanyang Polytechnic in Singapore. In third was Team Yolo from Concordia University in Canada, and in fourth was Team CU_Ugrad_1 from the University of Colorado Boulder in the United States. Students from each of the four winning teams will receive cash prizes and "are invited to attend a one-day market education conference at CME Group on April 15," as stated on the 2016 CME Challenge press release.

The five members of Scotty Dogs of the Dow came together after being selected by the Undergraduate Finance Association (UFA), which then required them to take a test managed by Mark Moskwa, current president of the UFA. "There were about 40 people interested and he was only taking 15 five per team, and then randomized the teams once they were selected," explained Glosner. And thus the winning team was created. To prepare for the competition, the team reached out to other people that have previously participated in this competition, seeking any useful advice or words of wisdom they could provide. In preparation for the competition, the

See **TRADING**, B3

Seniors impart wisdom at First Lectures Series

VALENE MEZMIN
News Editor

This Wednesday, March 16, Carnegie Mellon's Student Senate hosted the second part of the three part First Lectures Series. Each part features two current seniors who give a roughly half hour speech to current students on the lessons they have learned over the four years they have spent at Carnegie Mellon University. The First Lectures Series is based on Randy Pausch's lecture and the book he later published titled "The Last Lecture," which much of the student body became familiarized with before starting their time here. Mirroring how Pausch imparted his final words of wisdom to the Carnegie Mellon community before his passing in 2008, these groups of seniors hope to impart their own wisdom and reflect on their experiences here at Carnegie Mellon in order to have a lasting effect on current students before they venture off onto their distinct life paths.

Students of all grade levels, majors, and interests gathered in Porter Hall 100 to hear student speakers Rubini Naidu, a psychology major and photography minor, and Nitsan Shai, an electrical and computer engineering major with minors in computers science and music, give their first lectures.

Rubini Naidu's Story
Naidu began her lecture by reflecting on her familial Indian roots. Although she was born and raised in Michigan, Naidu was very much influenced by the values instilled in her by her family. She talked about the high value that education had in her household. This began with her grandfather's decision for his son (her dad) to receive an education rather than helping the family put food on the table. "Hearing something like that from my father has instilled in me gratitude for the opportunity of education," Naidu said, also mentioning that Carnegie Mellon is a rare opportunity that we should take full advantage of.

Honing in on her knowledge of psychology, Naidu began to explain the concept of multiple intelligences to the audience. This idea theorizes that rather than ranking one person as more intelligent than another based on one type of assessment, we actually have nine different types of intelligences. This proposes that while we are all intelligent, how this intelligence is measured depends on the individual. Naidu invited audience members to think about which of the nine intelligence factors they believe they fall into.

Naidu said she feels that based on her interest in psychology and the passion she has for working with people, she falls in line with interpersonal intelligence — the ability to sense people's feelings and motives — and intrapersonal intelligence — the ability to understand one's self and one's wants and

Courtesy of Ethan Bless-Wint and Michaela Laurencin

Current seniors Rubini Naidu (left) and Nitsan Shai (right) reflected on their lives and shared words of advice and wisdom to current students.

See **LECTURE**, B3

GrubHub expands restaurant options in Pittsburgh

KRISHNA RAO
Staffwriter

For many people, ordering take-out food is a hassle. The steps of finding the restaurant, searching the menu, placing the order, and most inconvenient of all, picking up the food are in need of a 21st century revamp. Enter GrubHub, a food delivery service that allows its users to bring their favorite meals to their doorsteps in a few hassle-free steps.

On March 9, the Chicago-based company announced its plans to expand its turnkey delivery options in the Pittsburgh area, partnering with more local restaurants to "bring a broader set of restaurant choices to diners." The delivery service has been offered in Pittsburgh since 2011, and has already connected 250 eateries with their customers. The platform is very popular with college students, many of whom lack convenient transportation, as well as the means to cook their own meals. Local favorites include Curry on Murray, Mad Mex, Kaya, and Fuel and Fuddle.

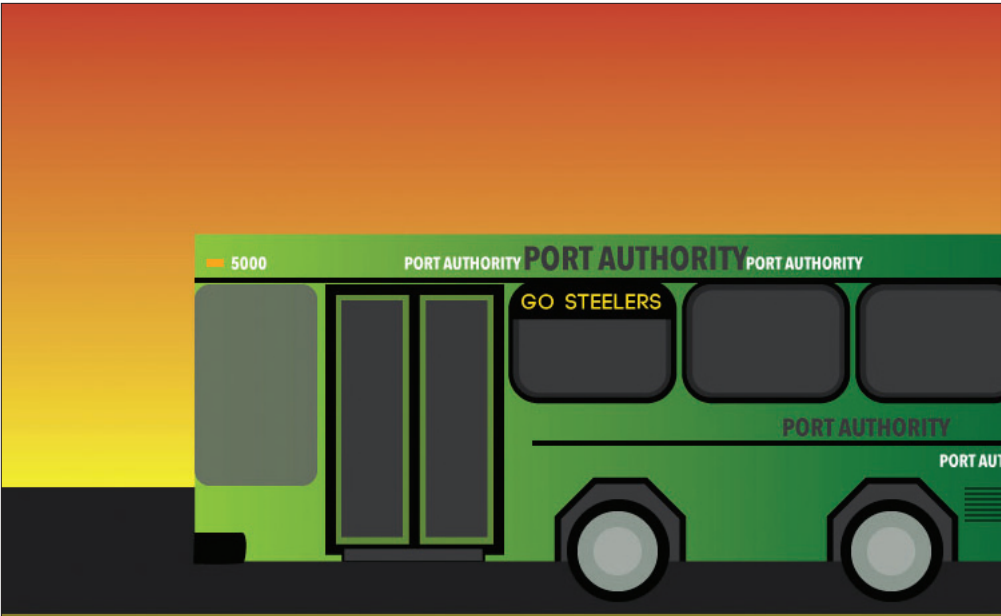
Since it was founded in 2004, GrubHub has become the nation's largest online and mobile food-ordering company. Active operations span 1000 cities in the U.S. as well as London, UK. The company is partnered with 40,000 restaurants, and recently linked with the national chain restaurants California Pizza Kitchen, Bucca di Beppo, Veggie Grill, and Panda Express. Overall, the platform is very user friendly and gives the customer an array of search options.

According to Stan Chia, GrubHub's Senior Vice President of Operations, Pittsburgh has seen a growth of restaurants over the past few years, and the company is "thrilled to offer residents more delivery options." Indeed, searching the company's website displays 65 results just in the vicinity of Carnegie Mellon's main campus, with everything ranging from Asian to Mexican, Pizza to Falafel. GrubHub even has features that tell the user which restaurants are open, have special deals, and a category for healthy food. Ordering on GrubHub can either be done through the website or through the mobile app.

Based on previous

See **GRUBHUB**, B3

Pittsburgh nominated as one of seven finalists in the nation-wide 2016 Smart City Challenge



Jarel Grant/Assistant Art Editor

The winner of the Smart City Challenge will be equipped with the materials to address transportation obstacles.

RAHEELA AHSAN
Staffwriter

The United States Department of Transportation named Pittsburgh as one of seven finalists for its "Smart City Challenge" as of March 12. Pittsburgh tied with Austin, Columbus, Denver, Kansas City, Portland, and San Francisco in the final tier of a government initiative that will grant \$50 million to the winning city. The winner will then have the monetary capability to address transportation and transit obstacles facing expanding cities.

Pittsburgh excelled amongst nearly 80 cities that entered the challenge in February. The city was then awarded \$100,000 to complete its application, which is due in April. The application enables the cities to finalize their ideas on transportation sustainability. Pittsburgh's application was a joint venture between Carnegie Mellon, the University of

Pittsburgh, the Port Authority, and countless other non-profit sponsors.

The team's application expands upon Carnegie Mellon's Traffic21 and Metro21 initiatives. By utilizing adaptive transportation systems that evolve with technology, new sensor information would pilot "Smart Spines" to gather statistics on major transportation corridors. This data would foster innovation in new usage for different models for transportation, thus creating new traveling options for underprivileged neighborhoods and increasing safety. Designed on an open platform, the system would propel Pittsburgh to becoming a test site for future transportation technologies.

Pittsburgh's Mayor William Peduto is an adamant supporter of the "Smart Cities" initiative. "Smart Cities is not just about promoting the latest transportation and energy related technology. It's about applying those efforts to improve the lives of everyday Pittsburghers by building smarter transit corridors and connections, bridging the digital divide and building greater equity in city neighborhoods, realizing the value of new energy opportunities, and reaching those impacted by displacement or isolation," said the Mayor in a press release from the Mayor's office.

Pittsburgh is quickly rising as a leading city for innovation that uses technology to address its changing social climate. With breakthroughs from both Carnegie Mellon and University of Pittsburgh alike, tech giants have seized the city as a center of growth. Mayor Peduto says Pittsburgh is already implementing new technologies to ease traffic and cut down on pollution. For instance, the Hazelwood steel mill is slowly being converted into a mock city for Uber to test-drive driverless cars. Carnegie Mellon's partnership with Google and Uber is meant to create innovative equipment to help them win the Smart City Challenge.

The winning city will be awarded federal grants in June.

FEATURE PHOTO

Students display musical abilities and raise money at Greek Sing



Abhinav Gautam/Contributing Editor

This Saturday, members of the fraternity and sorority community at Carnegie Mellon gathered at the Soldiers and Sailors auditorium to showcase various musical and dance numbers. This event is held annually to raise money for a designated charity. This year's was the Our Clubhouse charity.

Campus Crime & Incident Reports

Pedestrian Vehicle Accident

March 2, 2016

A Carnegie Mellon student reported that while jaywalking at the intersection of Clyde Street and Fifth Avenue, a passing vehicle ran over her feet. The student explained that the driver did not stop the vehicle or offer aid, and quickly left the scene afterwards. She was given medical attention after the incident.

Dumpster Fire

March 3, 2016

A dumpster fire broke out in the Wean Hall loading dock, and was promptly extinguished by University Police and the City of Pittsburgh Bureau of Fire. Upon investigation, University Police

determined that an improperly discarded cigarette bud was the cause of the fire.

Robbery

March 4, 2016

A Carnegie Mellon student was robbed of her iPhone in the Gates Hillman Complex. A University Police officer witnessed the robber being chased by the victim who was screaming for help. The culprit was in turn taken into custody by University Police and charged with robbery.

Suspicious Male

March 7, 2016

A Carnegie Mellon student was reportedly followed by an unknown male from the 5200 block of Forbes Avenue to the Cohon Center. The

student told University Police that the male was mimicking her actions and made her feel uncomfortable. An investigation is ongoing.

Suspicious Vehicle

March 14, 2016

University Police responded to the intersection of Morewood Avenue and Ellsworth Avenue to assist the City of Pittsburgh Police in searching for a suspicious vehicle which was following a Carnegie Mellon student.

Theft of Bicycle Tire

March 15, 2016

A Carnegie Mellon student's bicycle tire and rim were stolen from the bicycle racks outside of Doherty Hall facing Baker Hall. An

investigation is ongoing.

Motor Vehicle Accident

March 18, 2016

University Police responded to two separate motor vehicle accidents. In the first, a Carnegie Mellon staff member told University Police that a non-affiliate backed into a Facilities Management Services vehicle on Frew Street by Hunt Library. The second accident occurred at the intersection of Fifth Avenue and Morewood Avenue for a non-affiliate who hit the back of a Carnegie Mellon escort bus. In both incidents, University Police officers assisted each driver in exchanging information.

Compiled by
BARBARA SAMANIEGO

CAMPUS NEWS IN BRIEF

Spike Lee attends screening of his latest film *Chi-Raq* in McConomy Auditorium

This Saturday, March 19, award-winning filmmaker Spike Lee attended the screening of his latest film, *Chi-Raq* in McConomy Auditorium. Prior to the screening, Lee also participated in a "Face to Face with Spike Lee" event and Q&A.

Chi-Raq is a satirical musical drama and modern-day adaptation of the ancient Greek play *Lysistrata*, set against the backdrop of gang violence in Chicago. The title is a combination of the city's name and Iraq, meant to equate Chicago to a war zone. The film features a star-studded cast including Nick Cannon, Teyonah Paris, Wesley Snipes, Angela Bassett, Samuel L. Jackson, John Cusack, and Jennifer Hudson. It won the 2015 African-American Film Critics Association's Best Independent Film Award. It is

also part of the 2016 CMU International Film Festival "Faces of Conflict" lineup, which runs March 17 to April 3 at various locations in Pittsburgh.

Throughout the duration of his career, Lee has been nominated for two Academy Awards, won one Emmy, and is known for using his films to express political beliefs and examine race relations, the role of media, and urban crime.

"*Chi-Raq* and several of our other films point to the conflicts on our own turf," stated Jolanta Lion, a director of the film festival and assistant director of the Humanities Center in the Dietrich College of Humanities and Social Sciences. "Having Spike address these issues in person is sure to empower our audience to be vehicles of change."

Carnegie Mellon's Scott Institute for Energy Innovation hosts Energy Week

March 14 through 18 marked Energy Week, hosted by Carnegie Mellon's Wilton E. Scott Institute for Energy Innovation. The event was composed of over 100 renowned experts working to make more efficient, affordable, and sustainable energy. The event is first of its kind at Carnegie Mellon and was open to the public. Each day was themed. Monday's theme was research, Tuesday's was policy, Wednesday's was innovation, Thursday's was education, and Friday's were field trips and the energy workforce.

Participants attended talks by top Carnegie Mellon researchers and other experts on the latest topics, participated in discussions and roundtables, and visited Carnegie Mellon labs and research centers to see Carnegie Mellon's current efforts in energy. Various student competitions were also hosted.

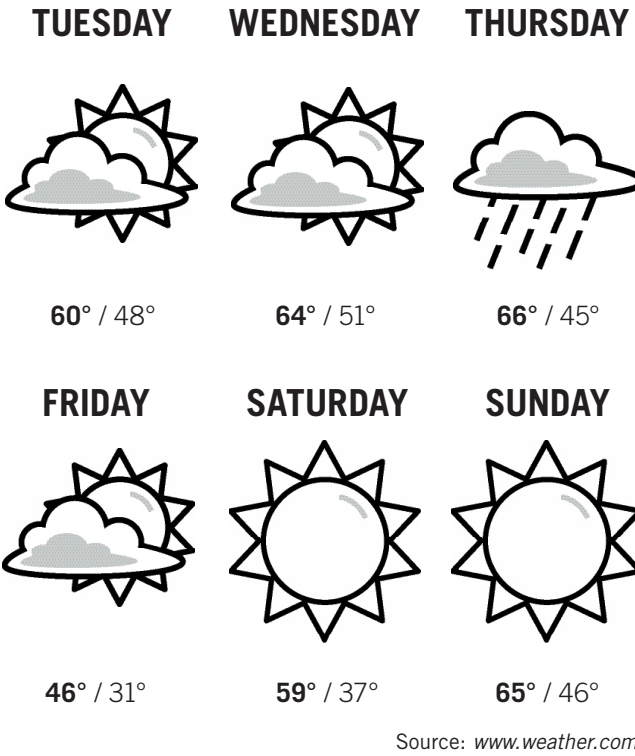
The Scott Institute researches and develops new products in energy

storage and distribution, nuclear and shale gas development, smart buildings and cities, electric energy systems, systems design optimization, and assessment in technology and policy. Launched in 2012 as a university-wide research initiative, the Scott Institute pulls together faculty from various departments and colleges in technology, policy, integrated systems, and behavioral science, as well as resources from external partners. It aims to facilitate real-world solutions for energy problems.

"That's the whole idea of the Scott Institute," said Andy Gellman, professor of chemical engineering and co-director of the Scott Institute. "We support deep research that leads to new products and new ways of doing things to improve energy and help Pittsburgh and the nation."

Compiled by
DEBORAH CHU

WEATHER



Corrections & Clarifications

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

INTERNATIONAL NEWS IN BRIEF

Putin orders withdrawal of forces from Syria

MOSCOW — On Monday, Russian president Vladimir Putin ordered the withdrawal of Russian forces from Syria, saying that the Kremlin had achieved all of its objectives in the war-torn country. The move came as a dramatic surprise, especially in Western capitals and Syria, and set off speculation about Russia's motives and how the war's outcome would be affected.

Source: *The New York Times*

Chinese journalist Jia Jia believed to be detained

BEIJING — A well-known Chinese journalist, Jia Jia, was detained by authorities on Tuesday as he was about to board a flight to Hong Kong. He was suspected of helping to draft a letter calling for the resignation of President Xi Jinping. Human rights advocates criticized the Chinese government's handling of the case, as the government seemed to be increasingly focused on harassing and silencing critics.

Source: *The New York Times*

Four people killed and 36 wounded in bombing

ISTANBUL — A suicide bomber killed four people and wounded 36 in a busy shopping district in Istanbul, Turkey on Saturday. The attack was the fourth of such attacks in Turkey this year, and brought widespread condemnation. At least two Israelis were killed, and Ireland reported that a number of Irish were also hurt. Turkey has recently been targeted by Kurdish militants and the Islamic State.

Source: Reuters

Obama nominates Garland for U.S. Supreme

WASHINGTON — This Wednesday, President Barack Obama nominated Merrick B. Garland to the Supreme Court. Garland is 63, well known in Washington legal circles, and is a moderate that has been praised by both Democrats and Republicans. Obama's choice challenged Republican senators who had vowed to block consideration of any nominee until the next president had been elected.

Source: *The New York Times*

Suspect of Paris attacks is captured in Brussels

BRUSSELS — On Friday afternoon, Belgian authorities managed to track down Salah Abdeslam, who is believed to be the sole surviving participant in the November terrorist attacks in Paris. Abdeslam is thought to have driven a team of terrorists to the French national soccer stadium outside Paris on the day of the attacks. He was one of ten men involved in the attack.

Source: *The New York Times*

Plane crash at Russian airport kills 62 on board

MOSCOW/DUBAI — A passenger jet flying from Dubai to southern Russia crashed on its second attempt to land at the Rostov-on-Don airport on Saturday. All 55 passengers and seven crew members on board died, most of them Russian. The exact cause of the crash is unknown so far.

Source: Reuters

Compiled by
DEBORAH CHU

GrubHub expands turnkey delivery service to new Pittsburgh restaurants



Courtesy of Wikimedia Commons
Mad Mex is one of the many Pittsburgh locations that will now be using GrubHub's food delivery service. Others include Curry on Murray and Kaya.

GRUBHUB, from *B1*

trends, GrubHub is expecting to see a spike in orders with the beginning of March madness. The NCAA event usually increases orders by 11 percent. The significant uptick in orders also comes around the time of midterms, as people stay inside and order their favorite comfort food as they prepare for Carnegie Mellon's notoriously difficult exams. GrubHub estimates that they

will see a nearly 30 percent increase in orders around midterms.

The company's goal is "connecting diners with food they love" and "elevating food ordering through innovative restaurant technology." While many chain restaurants already offer delivery service, GrubHub makes it easier to get food from your favorite mom-and-pop shops. For many small restaurants, Grubhub is the best way to

get a reliable and feasible delivery service. While it may be too costly to provide delivery independently, working through the national-scale service provider keeps rates low. The arrangement is such that the restaurants also earn higher revenue because of their ability to reach more customers. This is a win-win situation for both GrubHub and their clients. Those in the culinary industry, such as Chef Bill Fuller of Big Burrito

Restaurant Group, praises the model, saying, "we have been happy with the service and appreciate the new customers it has provided us."

A full list of restaurants using GrubHub's delivery service can be found on *Grubhub.com* under Carnegie Mellon University's address (5000 Forbes Avenue). For the many college students in the area who rely on take-out for their meals, the recent expansion of GrubHub is a real treat!

"Scotty Dogs of the Dow" win second place in CME Group Trading Challenge



Valene Mezmin/News Editor
Scotty Dogs of the Dow included, from left to right, Carnegie Mellon students Samuel Lee, Preston Bryant, Varun Singh, Kimberly Zhang, and Grant Glosner.

TRADING, from *B1*

team members would keep in contact by messaging every day, in addition to holding two in person meetings every week over the four week period.

Each member of the team summarized the motivation and reasoning that led to them choosing to participate in this competition.

"Experience was a huge part of it," said Zhang. "A lot of other organizations were promoting the competition.... I received suggestions from the Tartan Student Fund executive board that said it was important to familiarize yourself with the CQG software."

Bryant and Singh also discussed experience. "A lot of us are involved in Tartan Student Fund (TSF) ... We're exposed

to a lot of basic stuff, like buying, but in the competition we got to work with commodities and futures contracts," Bryant said. "It was a way for us to get exposed to different types of assets."

"I joined because I took Intro to Math Finance, and professor Hrusa talked about the types of futures that they're trading here, specifically the commodities in this competition, and I wanted to gain experience trading those as well," said Singh.

"The prestige of the competition," was Glosner's motivation. "Chicago Mercantile Exchange, which put on this competition, is the largest commodities exchange in the world, and this is probably the largest commodities trading competition in the world. I just wanted to be a part of it."

Samuel Lee cited an interest in trading and working in the trading industry, as well as the opportunity to compete on a global level. He believes that "CME Trading challenge is one of the few competitions that exposes participants to professional trading software and live data feeds," which provided him with "an authentic experience of being a trader."

In the press release for the 2016 competition, Roberto Caccia, Faculty Director for the Burrige Center for Finance at the Leeds School of Business at the University of Colorado at Boulder, said "As a former Wall Street Professional, it's great to see opportunities like the CME Group Trading Challenge complement what we teach in the classroom. This not only showcases students'

financial skills, but enables them to compete in real-world settings."

When asked about any words of advice she would want to share to students interested in participating in this competition, Zhang stated, "If there is any hesitancy to join the competition, or any interest at all, don't hesitate and just go for it, because you don't have that much to lose. If you don't place it's fine, but the experience is invaluable."

The members of the teams wanted to acknowledge the Undergraduate Finance Organization and Mark Moskwa, who is President of the UFA and a member of the team that placed fourth in last year's competition. In consensus, the team stated that without this system of support, none of this would have been possible.

First Lectures support pursuing one's passions



Courtesy of Michaela Laurencin
Nitsan Shai (above) focused his lecture on "The Importance of Smiling."

LECTURE, from *B1*

needs. It is then no surprise that she sought to become an academic coach for academic development. Through this job, she has been able to put her skills in action by helping those struggling with school work or simply in need of extra help.

Naidu has been able to spend her time at Carnegie Mellon doing what she loves and working to build a future career from it. She even cites the incredulity of her minor-ing in photography. During her lecture she shared beautiful photos of the sights she saw during a trip to India, ranging from large buildings to flowers. The pride she had in her work was made evident by her expression.

She also told a story that was told to her on one of these trips to India by the mother of a then six-year-old daughter.

The woman was struggling with money problems and was unable to sustain music lessons for her daughter. This taught Naidu that while we are concerned with our classes and making certain grades, there are many people around the world that are struggling with the simplest of life's troubles such as health and money. Naidu states "we not only have the opportunity for an education, but we have the opportunity to be able to make a living doing something we're passionate about, and that is so rare." We should not fail to be grateful for the opportunities we have as Carnegie Mellon students, and even as Naidu is about to say farewell to this university, she hopes that current students will be able to move forward with the rest of their academic journey keeping this message in mind.

Shai stated that the reason his grandfather survived in those conditions was because his uncle took care of him when he got sick after escaping, Shai believes that his family history shows that "helping others, whether they're your family or just in your nearby community and caring for other people is really the reason I'm here. I wouldn't be alive if that wasn't the case."

Although his family faced many struggles as evidenced by their history, Shai himself was also affected by hardships during his time at Gunn High School, known for "The Silicon Valley Suicides" as titled in *The Atlantic* magazine.

In response to this, Shai stated "I've been dealing with stress culture issues since my freshman year." What kept him motivated through this period of time was the activities he partook in during his free time. He participated in musicals, tutored kids, programmed projects he thought were interesting — basically anything that he found interesting that made him happy. "Through doing the things I loved, I continued to smile."

Shai noted that one of the distinct differences between his high school and Carnegie Mellon is the resources available here. Though Shai thought he was headed for a fresh start once enrolled at Carnegie Mellon, during his first year here there was a campus suicide. Shai questioned "Did I go to the right place? Is this problem following me?"

One of the main things that Shai wanted audience members to take away from his lecture was the amazing resources that Carnegie Mellon has to offer. This is what kept him moving forward during his time here and assured him that he had indeed made the right decision. He wants students to know that we should not be afraid to ask for help when needed, whether that be during our time here at Carnegie Mellon or after our lives here at the university.

The final lecture will take place on April 13 at 4:30 p.m. with electrical and computer engineering and human-computer interaction double major Erik Pintar, and electrical and computer engineering major Wole Idowu. These lectures will take place in Porter Hall 100.

Nitsan Shai's Story

Shai chose to focus his lecture on "The Importance of Smiling" even during life's toughest moments. Shai stated, in response to the notion that he is always smiling, "I don't particularly notice that I smile a lot ... I think what makes me happy is making other people happy."

Shai portrayed himself as someone that is generally happy and always takes the initiative to become involved in his many passions. Though majoring in electrical and computer engineering, Shai also has a love of the arts, which is evident from his roles in *Scotch 'n' Soda* and Carnegie Mellon's *The Originals* a cappella group. Shai is also the student supervisor for academic development.

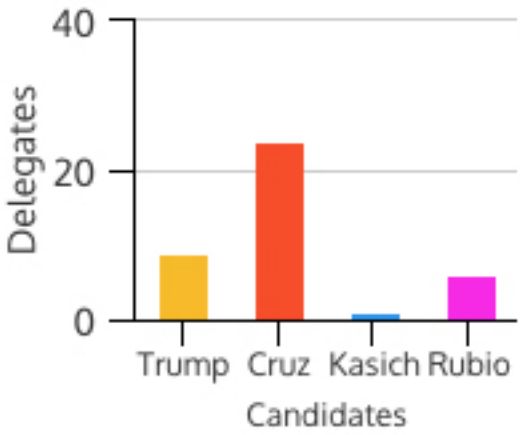
When asked about how he is able to take part in all these activities, Shai stated "often times, I don't," noting that this is a weird answer. While it is important to be aware of your passions and seek this out, it is also important to be able to balance it all. If he is unable to participate in something, he



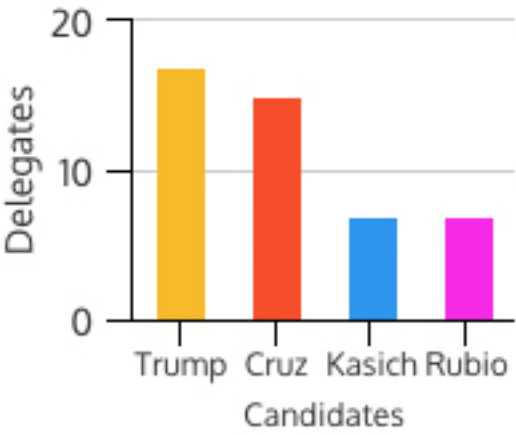
Trump leads GOP Primary as field winnows down to three

Post-March 1st GOP Primaries

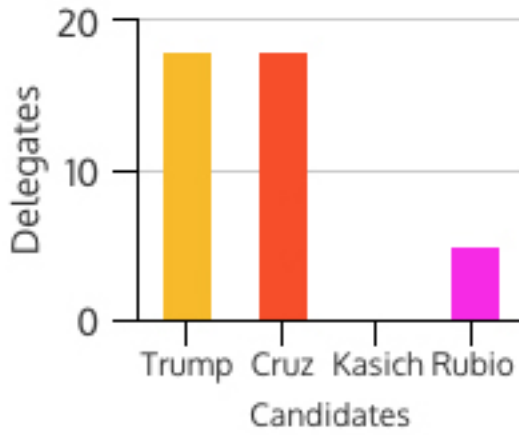
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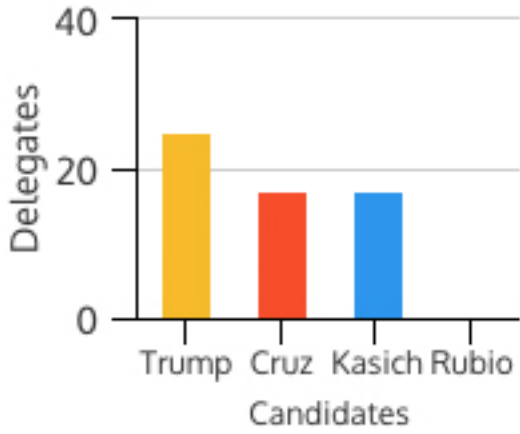
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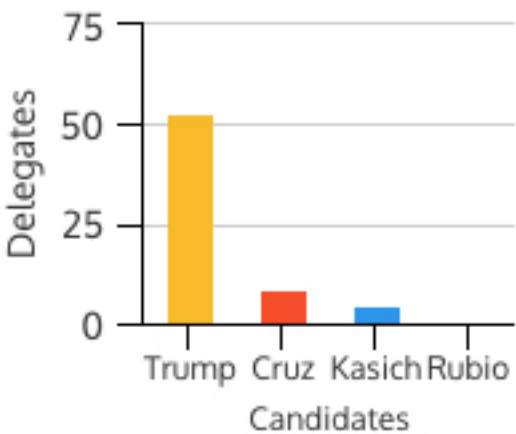
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Louisiana - 3/5



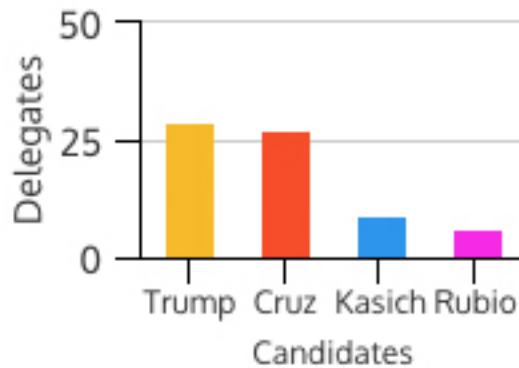
Results from
Michigan - 3/8



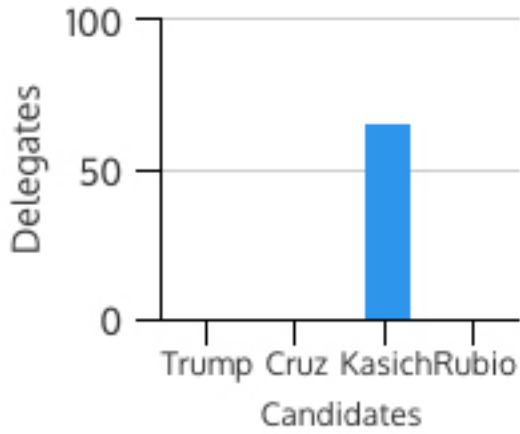
Results from
Illinois - 3/8



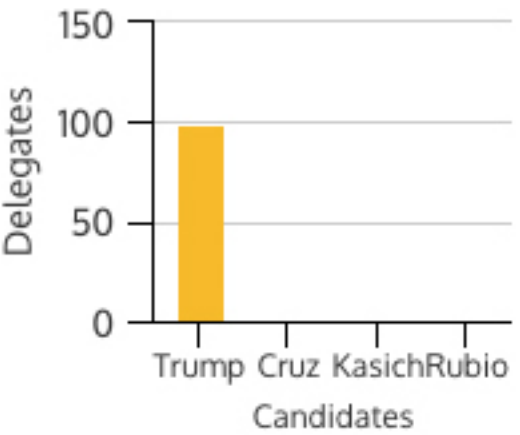
Results from
North Carolina -
3/15



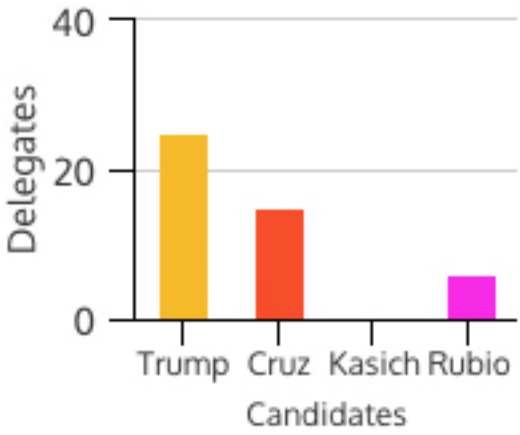
Results from
Ohio - 3/15



Results from
Florida - 3/15



Results from
Missouri - 3/15



CALEB GLICKMAN
Junior Staffwriter

Since the last issue of The Tartan, the 2016 primary season has seen 25 states cast their votes. For the Republican Party, it has been a tumultuous three weeks with several contentious debates in between the different primary dates. Starting on March 1, Super Tuesday saw Donald Trump win seven states and Ted Cruz win Texas, Oklahoma, and Alaska.

Marco Rubio had a rough night and only won the Minnesota primary. Cruz’s win in Texas gave him over 100 delegates, and a distinct place as the Republican alternative to Trump. Ben Carson dropped out after Super Tuesday with only eight delegates. He endorsed Trump last week, being the second former candidate to back Trump after Chris Christie endorsed him before Super Tuesday.

After Super Tuesday, there were the so-called “Super Saturday” primaries (alliteration is the news cycle’s best friend) where Trump and Cruz split the four contests, with Kentucky and Louisiana going Trump and Maine and Kansas favoring Cruz. On March 8, four more contests ended with Trump the big winner in the Michigan, Hawaii, and Mississippi primaries. Still, Cruz kept close in the delegate count, gaining 125 delegates to Trump’s 124 in the days after Super Tuesday. Cruz and Rubio were the winners in other small contests in Wyoming and Puerto Rico, respectively.

March 15 saw the allocation of five states’ delegates: Florida, North Carolina, Ohio, Missouri, and Illinois. The big prizes were Florida and Ohio. Not only were they the first winner-take-all primaries, where even if a candidate wins a plurality they win all the del-

egates, but they also served as a litmus test for the Rubio and John Kasich campaigns.

In Florida, Rubio pushed huge ad campaigns to stop Trump — to no avail. Trump won a landslide victory with over 45 percent of the vote and won all 99 delegates. Rubio, betrayed by his home state, dropped out after the race was called. Kasich, the governor of Ohio, had a much more favorable night, beating Trump by over 10 percent and winning all 66 delegates from his home state. With Rubio now out of the race, Kasich is the only remaining candidate that the majority of the Republican establishment supports.

With Kasich’s victory in Ohio, Trump needs to win 54 percent of the remaining vote to win the nomination. Still, Trump went on to dominate the night, soundly winning North Carolina and Illinois and tightly edging Cruz out in Missouri. The increase in delegates puts Trump over the halfway mark to the 1,237 delegates needed to achieve the nomination. He now has a more than a 250-delegate lead over Cruz. In a distant third, Kasich’s only hope to a nomination is through a contested convention. It should be mentioned that the last candidate to emerge from a contested convention and win a general election was Franklin Delano Roosevelt in 1932.

Since March 1, the GOP has experienced a rocky three weeks. In the debates between the remaining candidates, Rubio and Cruz took an extremely aggressive strategy against Trump. Rubio, in particular, released a slew of attacks on Trump’s business and personal record, some more indecent than expected. This tactic was executed at the exact wrong time, causing Rubio’s final slide. Kasich tried to stay above the fray, remaining the

only good-mannered candidate. Still, Trump remained immune, no matter how unconvincing his defenses were. With only three candidates remaining, the next GOP debate was cancelled after Trump refused to participate.

Trump remained in hot water from his delayed denouncement of former Grand Wizard of the Ku Klux Klan David Duke’s endorsement. In addition, many of his rallies have seen constant interruption by protestors. Trump himself has on several occasions encouraged violent responses to these protests. A Chicago rally was cancelled due to fights that broke out between protestors and supporters. At another rally that week, Secret Service agents tackled a man who tried to climb the stage to attack Trump.

With only three candidates remaining, the Republican establishment has done everything it can to put a damper on the Trump campaign. Speaker of the House Paul Ryan has frequently denounced Trump’s actions through thinly veiled statements jabbing at his rhetoric and suggesting that his demeanor is unfit for a President. Senate Majority Leader Mitch McConnell has also called Trump out on the violence that often occurs at his rallies.

Still, they stand by their statements to support the nominee of the GOP, even if it is Trump.

However, Mitt Romney, the GOP nominee from 2012, laid out the case against Trump and tried to rally the establishment to fight him. Former Speaker John Boehner even endorsed Paul Ryan, who isn’t running for president, if the convention is contested. Many have levied the possibility of running an independent candidate or writing in a name on the ballot rather than voting for Trump. Still, with his lead

widening, it is looking harder and harder to prevent Trump from attaining the number of delegates needed to secure the nomination.

Kasich has insisted that, thanks to his primary victory in Ohio, he is justified in staying in until the convention so he can win after the first ballot, when delegates are released to vote for whomever they want. However, trends suggest that Kasich remaining in the race will likely result in Trump obtaining 1,237 delegates by June 7. Kasich’s voters are more likely to support Cruz over Trump, and if he left the race now, a head-to-head showdown with Cruz is more likely to prevent Trump from attaining an outright majority before the convention. Still, if the GOP somehow managed to prevent Trump from winning the nomination after winning a clear plurality of delegates, it seems very likely that Trump would go on to run as a third party candidate.

After March 15, voting goes on a bit of a lull. Arizona and Utah vote this week on March 22, with a combined 98 delegates. North Dakota and Wisconsin kick off voting in the first week of April, but the contests won’t heat up again until mid-April. On April 19, New York will award its 95 delegates proportionally, and April 26 will see another slew of contests where the big prize is Pennsylvania’s own 71 delegates, awarded winner-take-all and through congressional districts.

The race may very well come down to the final day of primaries on June 7, when California awards its 172 delegates.

Whichever party you support, the primary in Pennsylvania is closed, meaning you must be registered before March 26 to be eligible to vote on April 26. Be sure to register if you haven’t!



Clinton builds sizable advantage over Sanders in March

SINEAD FOLEY
Forum Editor

March has seen some major shifts in the Democratic Presidential Primary. With thousands of delegates awarded, it has been a busy time in the presidential primary sphere. Without further ado, let’s get caught up.

The month started with Super Tuesday, on March 1, the day where the most pledged delegates were awarded. Participating states included Alabama, Arkansas, Georgia, Massachusetts, Minnesota, Oklahoma, Tennessee, Texas, Vermont, and Virginia, with a Republican caucus in Alaska and a matching caucus for Democrats in Colorado.

Super Tuesday was a pivotal day for Democrats. Former Secretary of State Hillary Clinton had hopes of shutting Senator Bernie Sanders (I – VT) out of the nomination. In her victory speech after a substantial victory in South Carolina on Feb. 27, Clinton announced, “Tomorrow, this campaign goes national,” marking a shift in her view of the race from a state-by-state primary brawl to a national presidential campaign. Meanwhile, Sanders invested heavily in Colorado, Minnesota, Oklahoma, and Massachusetts, hoping to build some momentum after a bumpy week in Nevada and South Carolina. He laid out his expectations, saying “I think we’re going to win here in Minnesota, I think we’re going to win in Colorado, I think we’re going to win in Oklahoma, I think we’re going to do really well in Massachusetts and I think we’re going to win in Vermont.” According to Politico, Sanders planned to use wins in those states to prove that he can gain widespread support across the country as the true ideological leader of

the Democratic Party.

Of course, neither candidate could get everything they wanted. Sanders got his wins in Oklahoma, Minnesota, Colorado, and a blowout in Vermont, picking up a total of 361 delegates throughout the day. He did, however, narrowly lose Massachusetts. Although Clinton only gained 46 delegates to his 45, the Clinton victory showed that she could build support among white liberals, which is usually Sanders’ demographic. Clinton won the remaining states and 518 delegates. She continued her streak of Southern successes with the help of African American voters. Clinton has been matching or exceeding President Barack Obama’s historic numbers with African American voters in 2008, with over 80 percent of African American voters supporting Clinton in Arkansas, Alabama, Tennessee, Georgia, and Virginia. She also snagged the biggest prize of the night, Texas, finding support among Hispanic voters.

With a solid Super Tuesday under her belt, Clinton looked beyond Sanders to Trump and the general election. She played off of Trump’s slogan, saying “We know we’ve got work to do. But that work is not to make America great again. America never stopped being great. We need to make America whole again.”

March 5, dubbed Super Saturday, showed that Clinton may have called the primary preemptively. Sanders won Kansas and Nebraska to Clinton’s Louisiana, and followed it up with Maine the next day. The difference in delegates was small, 65 for Clinton and 69 for Sanders, but the day gave what Sanders described as, “a lot of momentum behind us as we continue forward.” With her 2 hundred-delegate lead, Clinton didn’t break a

sweat and continued to focus on the general election, telling voters in Michigan, the next major state up for grabs, “The Republicans like to divide us. You are proving when we work together, we can rise together.”

Despite Clinton’s confidence, Sanders scored the biggest surprise of the 2016 race in Michigan on March 8. All the polls in the month leading up to the vote had Clinton winning by at least 5 percent, but Sanders won the “Showdown in Motown,” as his top aides referred to is as, by 50 percent to 48 percent in what FiveThirtyEight called, “one of the greatest upsets in modern political history.” The victory proved that Sanders was still relevant in big, demographically diverse contest in a campaign that has mostly been supported by white, young, or rural liberals. However, Clinton won Mississippi the same day by a substantial margin thanks to her continued success with the African American vote with a large enough margin to swamp Sanders’ Michigan delegates. The day ended with 71 delegates for Sanders and 90 for Clinton.

The major shift in the primary landscape took place on March 15 in this race’s second Super Tuesday. The day featured elections in Florida, Illinois, Missouri, North Carolina, and Ohio. Clinton cleaned up with victories in every state, and further expanded her already large delegate lead. Currently Clinton has 1,614 delegates including superdelegates, while Sanders has 856. Even without superdelegates, Sanders is over 300 delegates behind.

Even with the long odds, Sanders has decided to stay in the contest until the Democratic National Convention in July. There is an argument to be made that the next round

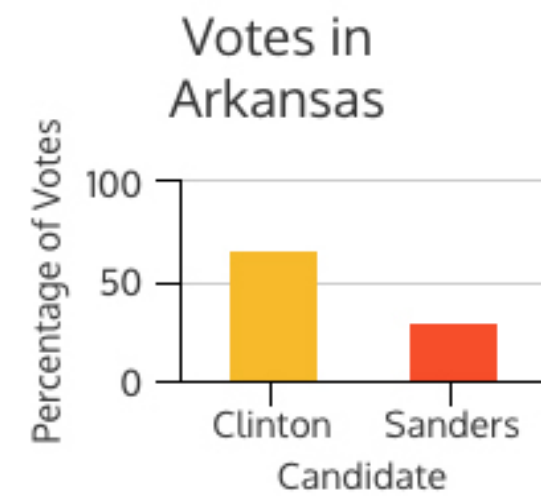
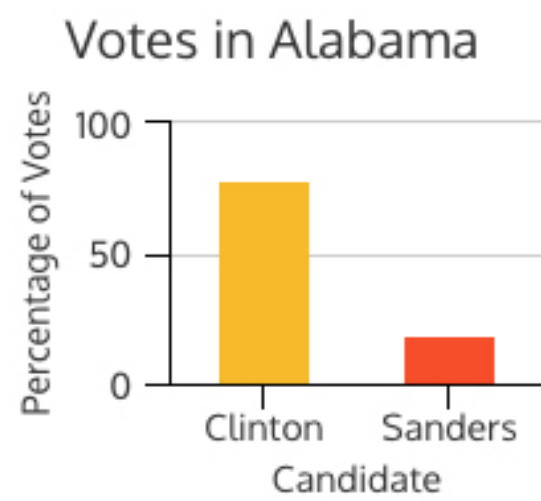
of primaries will be more favorable to Sanders. The southern, heavily African American states that have made up Clinton’s untouchable firewall have voted, and the upcoming votes in Arizona, Wisconsin, and Washington are more similar to states Sanders has won. However, upcoming urban, costal states like California and New Jersey seem likely to lean towards Clinton, and her adoptive home state New York is delegate rich.

Even Sanders’ top aids seem to feel the need to justify their continued participation in the race.

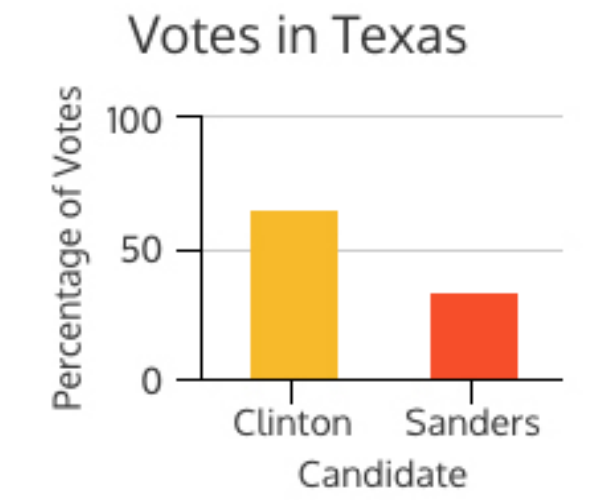
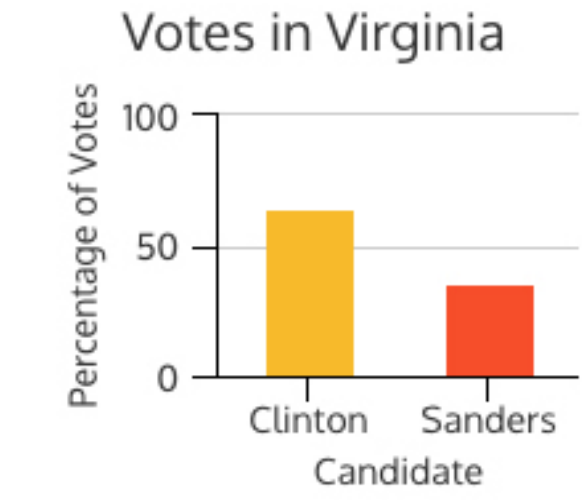
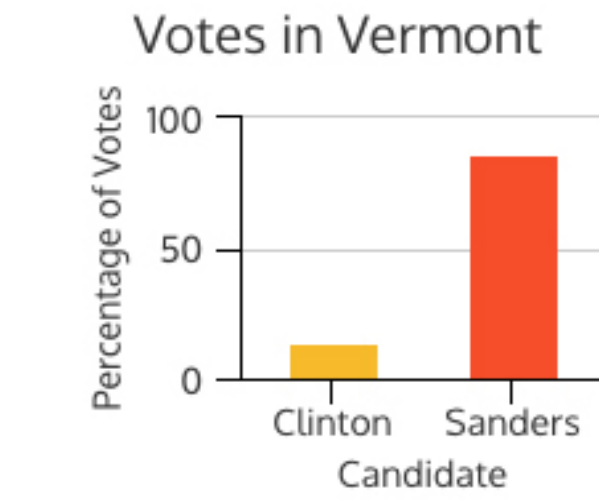
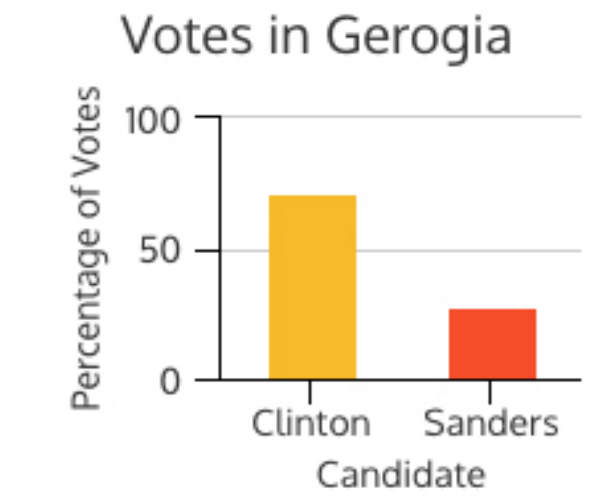
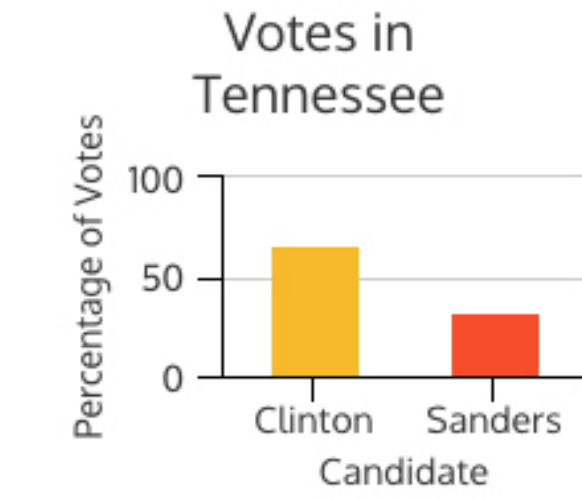
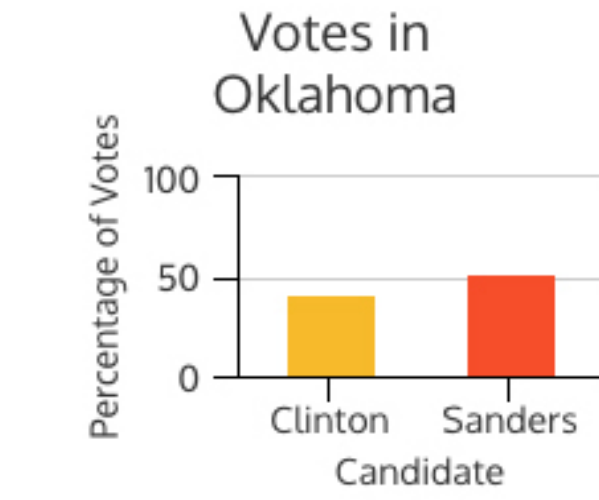
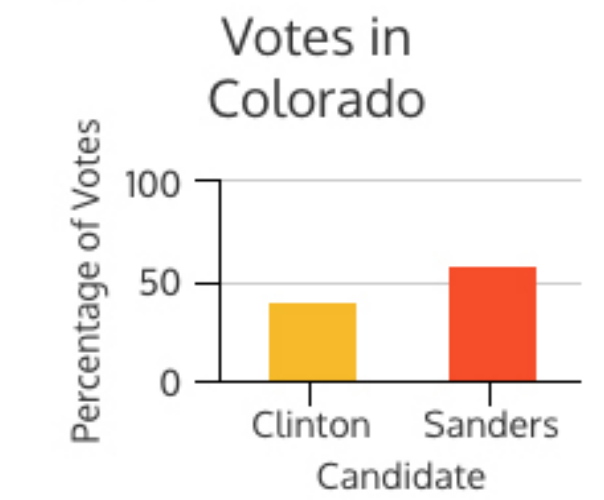
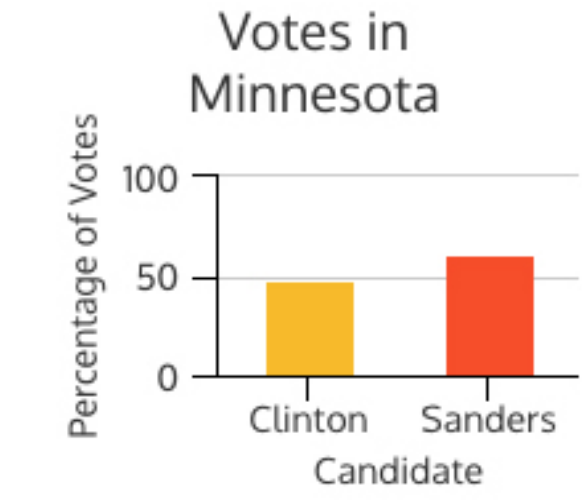
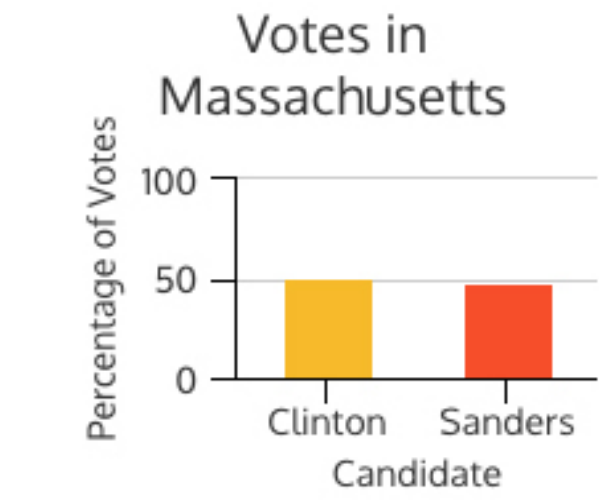
After the sweep on March 15, the Sanders campaign seems to be beating a dead horse. Even his most impressive victory in Michigan was swallowed by Clinton’s unyielding advance. At this point Sanders would need 66 percent of the remaining pledged delegates to win, which is realistically impossible. His campaign has fallen back on some uncomfortable speculation, with a Sanders strategist noting that “pledged delegates are not always obligated to vote as pledged.”

However, the Sanders campaign has come up with one good reason to stay in the race. Sanders’ campaign manager Jeff Weaver pointed out, “Not even half the delegates have been picked and I think it is not good for a media drumbeat to essentially disenfranchise half the Democratic voters in the Democratic primary and caucus system. We believe voters should have a chance to articulate which candidate they would support.” Sanders, a practical nobody when he first announced his campaign, managed to turn Clinton’s sure fire primary into a historic rollercoaster of a race. In that spirit, it’s still worth going to the polls on April 26 as a Democrat.

Super Tuesday



In addition to Super Tuesday, Clinton gained 530 delegates in the Super Saturday, Mar. 8 and Mar. 15 primaries including 133 in Florida. Sanders snagged 413 including 67 in his surprising Michigan win.



On the Issues: Tax plans split both parties and candidates



India Price/Online Editor

ZEKE ROSENBERG
Senior Staff

Taxes are a broad and often complex policy area. While every candidate proposes some combination of taxes on income and consumption, the activities and transactions being taxed can vary wildly from candidate to candidate. Economists are split on the issue as well, finding consumption taxes to be more predictable and stronger drivers of government revenue while income taxes are less of a burden on the poor and prevent money from piling in places where it will just be saved. Furthermore, taxes on capital gains, financial transactions, and other things often have a dampening effect on those activities for better or worse. The five remaining candidates each have unique positions on taxation.

Senator Ted Cruz (R–TX) Ted Cruz’s tax reforms center around criticizing the complexity of the tax code and its progressive nature. He feels that the difficulty of reading through America’s current federal tax code makes it harder for less wealthy citizens to identify deductions on their taxes. This leads to significant errors and wasteful spending on filing, as well as a cost burden on Americans who need professional help to file their taxes. This is a common concern among economists, and Cruz feels his plan addresses this problem directly. He wants to make collecting taxes so simple that he plans to abolish the IRS in favor of a tax code that allows taxes to be paid on a postcard or an iPhone app. He also wants to remove tax brackets to create a flat 10 percent tax on all Americans.

Cruz’s plan supposedly works for all Americans on multiple levels. He believes that the lowered tax will create more jobs by freeing up money from the wealthiest citizens who have hiring power, which will lead to things like increased opportunities and wages. He also plans to directly increase after-tax income by expanding the earned income tax credit (EITC).

In addition to income tax reform, Cruz also plans to implement a sizable consumption tax that he calls the Business Flat Tax. He’ll deny it if you ask him, but this is a European-style value-added tax (VAT). It taxes the revenue of a company adjusted for the expenses that company undergoes for business operations. The nonpartisan Tax Policy Center agrees with Cruz on most of these points, saying that they could even drive up growth as far as 14 percent. They are less enthused with the potential outlook for revenue, saying that the national debt could explode if spending is not cut significantly.

Ohio Governor John Kasich Kasich has proposed a significant, across the board tax cut. He wants to cut the top marginal income tax rate from 39.6 percent to 28 percent. In addition, he wants to reduce the capital gains tax to 15 percent and the corporate tax rate from 35 percent to 25 percent. Kasich claims that these cuts will allow more money to flow into the private sector and create more jobs and opportunities for citizens. He also wants to expand credits such as the EITC by as much as 10 percent to give citizens a top-up on their wages and the research and development credit for small businesses to allow them to create jobs.

Kasich’s tax plan also addresses repatriation of foreign capital in a unique way. First, the lower corporate tax will lower operating costs on businesses within the United States. Additionally, territorial taxes would restrict taxation to profits in the country in a manner more similar to other nations. By no longer double taxing their business ventures, this would incentivize companies to return to the United States. Kasich’s plan has avoided a detailed analysis by the Tax Policy Center or the Tax Foundation, so it is difficult to evaluate, as analyses tend to be partisan and not particularly informative.

Businessman Donald Trump Trump’s tax plan is a large hunk of red meat for the conservative base. Trump massively shrinks income taxes, cutting tax rates for nearly all Americans. The proposed marginal tax rate is 0 percent for people earning under \$25,000, 10 percent for people earning between \$25,000 and \$50,000, 20 percent for people earning between \$50,000 and \$150,000, and 25 percent for people making above \$150,000. The income brackets would be doubled for couples and multiplied by 1.5 for heads of households. He also wants to cut long-term capital gains taxes and restrict the itemized tax returns that many people use to cut large amounts of their income taxes. Trump has also proposed a one-time tax holiday where people can bring their money back to the United States at a vastly decreased tax rate in order to repatriate foreign capital and a lower corporate tax rate to prevent restrictions on the growth of businesses.

The Tax Policy Center has said that the Trump plan could increase work incentives and grow the economy. The same report also says that the national debt could explode out of control by as much as 80 percent of GDP unless the plan was accompanied by significant spending cuts.

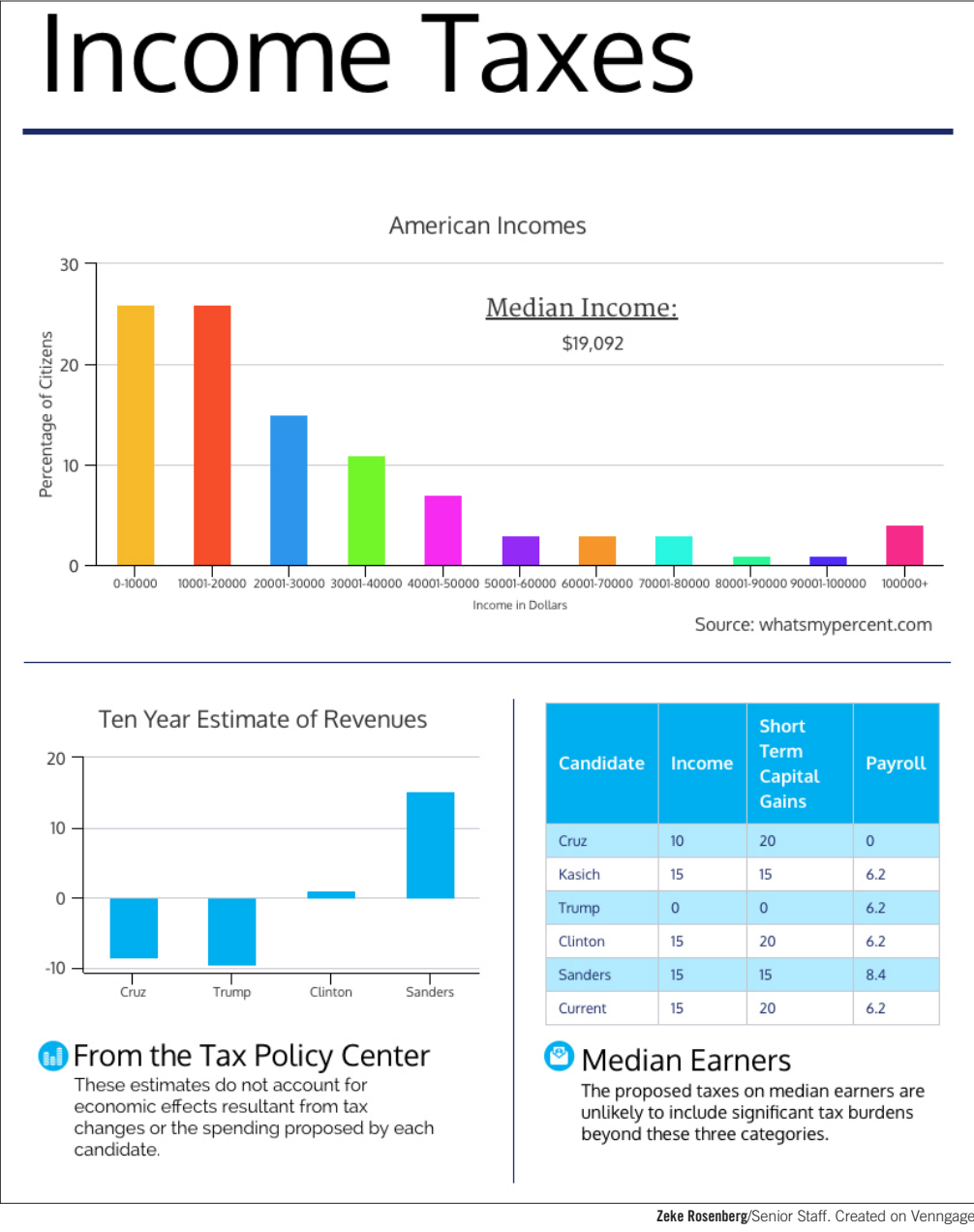
Former Secretary of State Hillary Clinton Secretary Clinton’s tax code hits the wealthiest Americans hard, increasing tax rates and adding extra regulations to make sure that Clinton’s agenda is not financed through taxes on the poor and middle class. In addition to a higher top marginal rate, Clinton plans to impose the “Buffett Rule,” a requirement that at least 30 percent of the income of top earners

is paid in taxes and a cap on tax breaks at 28 percent is put in place. Further, Clinton wants to impose a progressive capital gains tax on short-term investment with the tax rate dropping to 20 percent and staying static after six years on an investment. She says this will combat “quarterly capitalism” and the boom and bust cycles of Wall Street. Clinton will also tax carried interest as normal income, meaning investors will see an uptick in their taxes. Clinton also wants to use tax credits as a carrot for companies that implement revenue sharing and return a portion of their profits to their workers instead of only to the shareholders. Clinton believes this would make jobs more lucrative and take a significant hack at income inequality in a way taxation and spending cannot. The Tax Policy Center has said Clinton’s plan will raise \$1.1 trillion in revenue. The same analysis said that it was possible that Clinton’s plan would reduce incentives to work and spend but that the damage to the economy would be limited.

In addition to having taken a pledge not to raise taxes on Americans earning less than \$250,000 a year, Clinton has claimed that a significant tax cut for those poor and middle class families is forthcoming. This could affect the projections about her tax plan in terms of revenue as well as economic effects.

Senator Bernie Sanders (I–VT) Sanders has proposed unleashing a bevy of taxes on the wealthiest Americans. His most obvious tax raise would be a tax increase for those making above \$250,000 a year, including a marginal tax rate as high as 52 percent for those making over \$10 million each year. Sanders also plans to tax capital gains and (this is unclear from the text of his plan but he refers to it in one of his bullet points) carried interest as income and raise payroll taxes by 2.2 percent in order to pay for his programs. In addition to taxing income, Sanders also has proposed taxing financial transactions at a rate of 0.5 percent in an attempt to slow high

frequency trading, which he believes is a threat to the economy. The Tax Policy Center has said that, while Sanders’ plan would raise stunning amounts of revenue — the estimate is in excess of \$15 trillion — and while the vast majority of it would be from the rich, every American would see a sizable increase in their tax burden. Sanders has bristled at the notion that he is increasing the burden on every American, saying that an analysis of the tax policy without an analysis of his spending is unfair, especially since his tax plans are always released jointly with what they pay for. While capital gains tax increases and a financial transaction tax would vastly increase the costs of traditional tenets of the American dream such as homes and cars, it seems that Sanders is making the trade-off that a higher wall between the middle class and the wealthy is worth a more accessible path to the middle class from poverty. His tax plan, however, is certain to raise both the capacity of the government to spend and the amount each citizen contributes to financing it.



POETRY AND RACE IN AMERICA

HOW THE HUMANITIES ENGAGE WITH SOCIAL PROBLEMS

Readings and Moderated Discussions
Monday, March 21, 7 p.m.
Frick Fine Arts Auditorium
University of Pittsburgh

MODERATOR
Terrance Hayes
CO-DIRECTOR, THE CENTER FOR AFRICAN AMERICAN POETRY AND PRATICS

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Carson and Rubio drop out

IAN TANAYA
Assistant Sports Editor

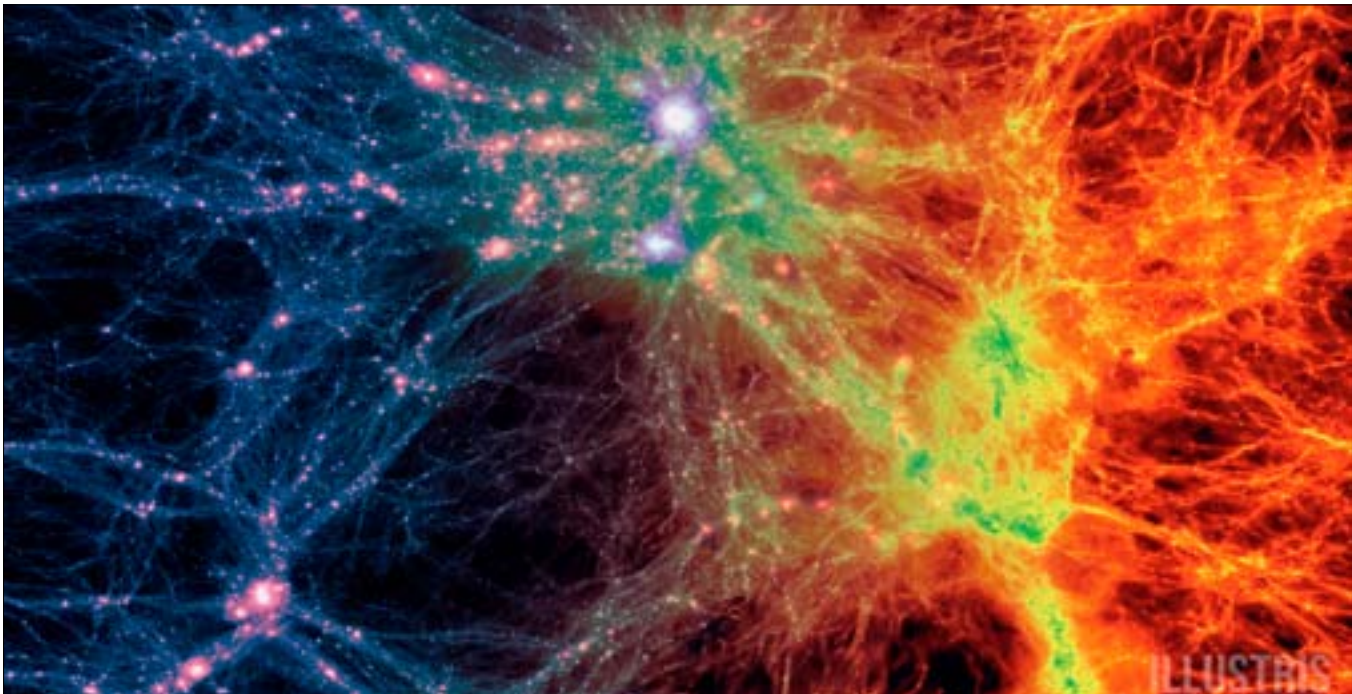
As the first half of primary elections draws to a close, the once incredibly crowded Republican field of presidential contenders has narrowed to businessman Donald Trump, Senator Ted Cruz (R–TX), and Ohio Governor John Kasich. After disappearing entirely from the process following Super Tuesday primaries on March 1, retired neurosurgeon Ben Carson ended his campaign on March 4. Once considered a top candidate during the summer, Carson faded into the background as Cruz began taking the stage as the conservative candidate and Trump solidified himself as the complete outsider. His strongest performance came at the Iowa caucus where he earned 9.3 percent of the vote. The Carson campaign contended that Cruz supporters had told caucus goers that Carson would be dropping out shortly to convince Carson supporters to vote for Cruz. Though Carson didn’t perform particularly well in any other state, he continued to campaign, likely as a slight to Cruz who continues to suffer attacks on his credibility. Following his decision to drop out, Carson decided

to endorse Trump, further boosting support for the front-runner. Following a loss in his home state, Senator Marco Rubio (R–FL) also decided to give up the presidential fight. Though he had been considered a possible unifier of conservative and moderate factions, establishment supporters stayed divided among the moderates that ran, including Kasich, former Florida governor Jeb Bush, and New Jersey Governor Chris Christie. Among conservatives, Rubio’s attempts to help pass an immigration reform bill as part of the Gang of Eight have marred his tea party credentials. Rubio, who will not run for re-election in the Senate, seems like he will be exiting the political spotlight for at least the near future, though it is possible that he may join the ranks of former politicians who continue to influence politics from the shadows by lobbying. Trump remains the front-runner, and some of his recent remarks on the race have indicated that he has already moved on to focusing on the general election. Cruz remains the only choice for “true conservatives,” while Kasich is the standard bearer for anyone who wants the

archetypal election winning formula: a moderate with executive experience and a reputation for improving the general state of constituents. Unfortunately for Kasich, gone are the days when Republicans would prefer these traits. Instead, firebrands bent on upending the system are popular. Leading no longer means coming together and negotiating deals where neither side is completely happy, but both still work for the best for the country. Conservatives are sick of seeing candidates perceived as part of the establishment continue to “betray” them in Washington, notably exemplified by Speaker of the House Paul Ryan, the standard bearer of fiscal conservatism a mere four years ago, who is now perceived as a big spending liberal. With Kasich standing as the last traditional candidate in the Republican field, the establishment power brokers have a difficult decision to make. They could lend support to Kasich and Cruz in an attempt to engineer a brokered convention, or they can rally behind the Trump insurgency. The first would put the party into potentially irreparable chaos. The second would put Trump at the top of the Republican ticket.

Science & Technology

Researchers examine galactic formation and evolution



Courtesy of Illustris-Project.org.

YUE YIN
Staffwriter

Last Tuesday, as a part of Bennett-McWilliams Lecture, Carnegie Mellon alumni invited Lars Hernquist, a theoretical astrophysicist and Mallinckrodt Professor of Astrophysics at the Harvard-Smithsonian Center for Astrophysics, to Carnegie Mellon's campus to give a lecture on galaxy assembly and evolution. Hernquist talked about Illustris, a project that uses a new computational model developed by Hernquist and his team, which consists of Volker Springel, a professor in

the Department of Physics and Astronomy at Heidelberg University; Mark Vogelsberger, an assistant professor in the Department of Physics in MIT; and a contingent of students and faculty. Galaxies are the building blocks of the universe's large-scale structure. Due to the rapid development of technology and cosmology over the past centuries, there has been a recent explosion in robust observational literature on galaxies, as well as several studies of individual galaxies. In scientists' effort to explore the universe, it seems necessary to have a predictive theory of

galaxy-assembly with which to interpret this massive amount of data and to ultimately understand the origin of stars. This question has become a very long-standing problem. Starting in the 1920s, various solutions have been put forward, but there's still no fully predictive theory. The major complications are that the theory needs to account for normal physics — as opposed to anti-matter and the like. The theory will also have to handle galactic scale — from black hole accretion disks to star-forming regions to halos, all at the same time. Also, many processes relevant to galaxy

formation and evolution are still poorly understood. The good news, however, is that researchers know where to begin. The Illustris project description states that: “The Lambda Cold Dark Matter (Lambda-CDM) paradigm of cosmology, currently favored by observations of the large-scale distribution of galaxies in space, implies that the cosmos is filled with three distinct components: normal matter, dark matter, and dark energy. The mathematical models which govern the physical behavior of these components are sufficiently complex that

they can only be solved exactly for very particular, simplified ‘test’ problems.” Hernquist concludes that fundamentally, the situation is a computational problem, which requires a numerical approach that is adaptive in space and time. “A number of fundamentally different methods exist for simulating gas on a computer,” Hernquist said. “In astrophysics, most researchers have used one of two approaches. The first is smoothed particle hydrodynamics (SPH), where the mass of the gaseous fluid is parceled out to a discrete number of particles. These particles move in response to the combined forces of gravity and hydrodynamics, and their position at any time indicates where the gas is, as well as how it is moving. Hernquist continued that the second approach of Eulerian, or mesh-based methods typically utilize a scheme called adaptive mesh refinement, or AMR. Through this method, space itself is divided up into a grid, and the flow of gas between neighboring cells of this grid is computed over time.” The Illustris simulation uses a different approach, employing a “moving, unstructured mesh.” Moving mesh treatment of hydrodynamics offers many advantages over other approaches for cosmological simulations of galaxy

formation. Like in AMR, the volume of space is discretized into many individual cells, but as in smooth particle hydrodynamics, these cells move with time, adapting to the flow of gas in their vicinity. As a result, the simulation has particle-based strengths that include geometrical flexibility, accurate and efficient gravity solvers, and continuous refinement, as well as grid-based strengths that include resolution of discontinuities, relatively less diffusive, and well-defined convergence criteria. Several projects are now being carried out by the team members. With Illustris, researchers are able to observe fine structures of galaxies and interacting galaxies. Research by Vogelsberger in 2014, and Greg Snyder in 2015, regarding galaxy morphologies and colors shows approximately observed abundance of morphologies of galaxies: 30 percent of spirals, 30 percent of elliptical, and 10 percent of irregulars at $z=0$. Illustris can also help in tracking galaxies in redshift, or progressing farther away, such that the wavelengths that actually reach observers appear more red, though with some variations in simulation forwards and backward because galaxy number is not conserved in our universe due to the fact that galaxies merge

See **GALAXY**, B8

Smart phone cameras aid infrastructural data collecton

JULIA NAPOLITANO
Assistant SciTech Editor

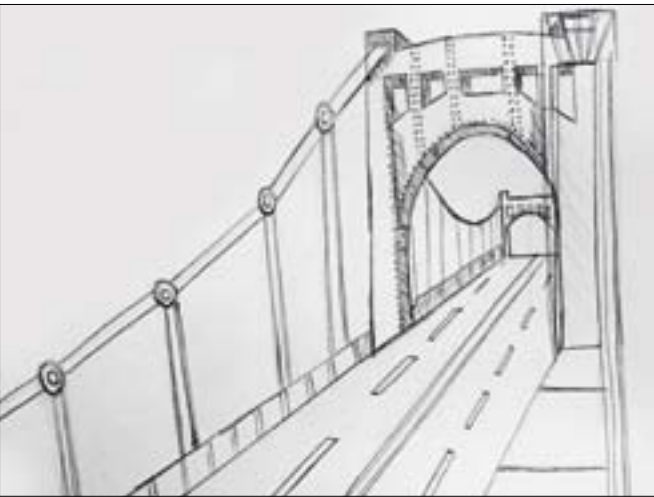
Due to weather, usage, and vandalism, road infrastructure is constantly in a state of flux. It is important that municipalities properly inspect roads in order to ensure the safety of those who use them. Currently, the standard method of reporting infrastructure damage is from citizen or inspector reports, or from specialized vehicles with sensors, which are expensive. Christoph Mertz, principal project scientist at Carnegie

Mellon University's Robotics Institute, is researching how smartphones can be used to give municipalities a more efficient and cost-effective way to inspect road infrastructure. “It is essential to get eyes on every road, during every year in order to stay ahead of what could become costly repairs,” said Jason A. Dailey, director of public works for Cranberry Township, in a university press release. “Expensive services are available that have on-board tools and sensors, but these are typically out of the price range

of the average community.” Mertz's research is comprised of two steps: images are collected, and the data is examined to identify areas of infrastructure that need the most repair. The system uses computer vision algorithms to analyze and categorize high-resolution images of a road. “Data collection and analysis could take a matter of days, where it would otherwise take months or even years,” Mertz said in a university press release. Mertz's vision is to put smart cameras

on garbage trucks, which go through neighborhoods once a week and would provide infrastructure data often enough that problems could be spotted and addressed quickly. The data from the smart camera is uploaded via Wi-Fi to Mertz's computers, where he analyzes the photos for cracks in the infrastructure. All the photos are uploaded to software containing a map of Pittsburgh and are categorized by the urgency

See **INFRASTRUCTURE**, B8



Maegha Singh/Art Editor

SCITECH BRIEFS

Physicists turn to micro-scale engines to bend second law

The second law of thermodynamics states, in the most basic terms, that as energy is transformed or transferred it is increasingly wasted. This law is one of the main impediments to designing efficient technologies; the thermodynamic laws affect everything from cars to batteries. It has long been a mission of physicists to seek out some way by which this law of wasted energy might be bendable. While physics concerns itself with big-picture concepts, some physicists, such as Janet Anders, of the University of Exeter's theoretical physics department, are taking a closer look and considering the potential of micro-engines, some potentially composed of only three molecules and powered by a single atom. Recent experiments to determine whether or not the quantum level is more demanding than the macro-level have found that the second law is actually more demanding at the quantum level. In the words of the English astrophysicist Arthur Eddington, any idea that goes against the law of thermodynamics will only “collapse in deepest humiliation.” While this may be so, physicists refuse to stop trying to break the rules.

Source: Science News



Giant spider-bot unlocks secrets of web-vibration sense

Spiders use vibration sensitivity to determine where in their webs trapped insects are struggling and to quickly meet and consume them. However, the mechanism behind these vibration senses, is unknown. Researchers from Oregon State University attempted to find out more, using a large-scale web structure created out of threaded aluminum to simulate the spider's web and an eight-legged model in the center which detects the vibrations from the web. Spider webs use two types of silk in their construction, though there are several other types used for various purposes. The researchers did the same, using both aluminum and elastic rope, attempting to be as true-to-life as possible. Using a large subwoofer, the researchers vibrated areas of the web and recorded the vibrations felt by the centrally located spider. This experiment found that spiders feel very complex vibration sensations. In some portions of the web, and at some frequencies, the shaking is heavy, while in other areas, it completely disappears. This allows the spider to know which area of the web the struggling insect might be contained in and to quickly respond by devouring the prey before it can escape.

Source: BBC



Metamaterials showcase unique growth properties

Metamaterials are materials that exhibit properties not normally observed in nature. In the case of research performed by Ahmad Rafsanjani, a materials and mechanical engineer from McGill University in Montreal, that means expanding width-wise when stretched, rather than simply becoming thinner and longer. The properties of these metamaterials allow them to expand in all directions, effectively “unfolding” into larger structures. They are also adjustable, such that they can expand and return to their original geometric formation without much effort. Rafsanjani gleaned his inspiration from Islamic motifs, which he described as a “huge library of geometries.” In order to actually test out these metamaterial concepts, Rafsanjani created two simplified patterns out of laser-cut rubber sheets. Other more complicated patterns utilize complex origami folding techniques. These types of metamaterials are called auxetic, meaning that they are able to expand in all directions as they are stretched. Potential uses for this technology could be found in solar panels or satellite technology, and depending on how finely tuned one's laser is, these auxetic materials can likely be scaled to the microscopic level.

Source: BBC



Portugal's storks cease migration to scavenge landfills

Researchers from the University of East Anglia are concerned with the migratory patterns of Portugal's white stork population. The birds usually migrate to Africa for its warmer climates but lately, they have been staying in Portugal year-round. Whenever a species' behavioral patterns change so drastically, it's often a symptom of deeper issues, including a possible change in the local ecosystem. Strangely, however, the white stork population has been steadily growing for the past few years. The amount of landfills within the area have also been growing, and these two factors were found to correlate. In an effort to discover why the storks' behavior had changed, a team of researchers tracked 48 white storks' movement patterns with GPS monitors. They found that the birds traveled to landfill sites quite often, and that the landfills had been supplying the storks with fatty leftovers year-round. This is problematic for a number of reasons, but one of them is that the storks frequently ingest smaller, inedible pieces of computers and plastic. In the future, this food supply will be dwindling, as landfill regulations and clean-up efforts mount, so perhaps the storks will learn to migrate once again.

Source: BBC



Reprogrammed human cells regrow corneal tissue

Researchers have recently been able to coax human stem cells to grow into corneal tissue and utilize these to repair rabbit eyes. The cornea is a portion of the eye's surrounding membrane, located directly in the front of the eye, and it is important for allowing light to enter the eye, and also for focusing a large amount of that light. The first study, performed by Kohji Nishida, an ophthalmologist at Osaka University, involved growing proto-eyes using reprogrammed human cells. These cells formed an eye-like structure, as expected, and when the researchers isolated cells with potential to become corneal tissue, researchers transplanted them into rabbits with corneal damage, and the cells repaired the damage. Potential advantages of this technology are tissue repair surgeries, but there may also be advantages beyond surgery as research moves toward tissue self-repair rather than transplantation. One example of this is a study done by Kang Zhang, a stem cell biologist, and his colleagues at the University of California, San Diego, in which researchers tested cataract patients' eyes and observed that individuals who underwent the surgery were more likely to completely regrow their lenses.

Source: Science News



Stem cells from fat used to create and repair cartilage

While many people would like to get rid of their extra fat, Rocky Tuan, the Director of the Cellular and Molecular Engineering Lab at the University of Pittsburgh, is turning liposuctioned fat into cartilage. Tuan is also using fat cells to grow partial tendons and ligaments to support the joints that this cartilage cushions. This process is made possible by the high amount of stem cells present in fatty — or adipose — tissue. According to J. Peter Rubin, Chair of Plastic Surgery and Professor of Bioengineering at the University of Pittsburgh, fat cells are so multi-talented that they could be used as a sort of complete body repair kit. One of the benefits of this type of transmutative process is that excess fat from liposuction surgeries can be put to good use, potentially finding its way into the joints of someone in need. There are also implications for this type of procedure in other areas of plastic surgery. Potentially, a similar process could be used to recreate muscle tissue as well. While there is still progress to be made before researchers completely understand each potential application of fat cells, this research could be an important leap in body repair.

Source: Science News

Compiled by
JOSH BROWN



PUGWASH

Apple prioritizes its users’ privacy over national security



The San Bernardino terrorist attack was a tragic event, and we hope that nothing like it ever happens again. But what is the best way of preventing future terrorists? Is it possible to stay safe without giving up our own freedoms? When Apple publicly refused to help the FBI break into the iPhone used by one of the San Bernardino terrorists, the debate between freedom and security came back into the public spotlight. Last week, Pugwash discussed whether giving governments full access to information is the best way to protect our security.

Before touching on moral implications, some discussion took place as to what the FBI was asking of Apple. iPhones have a security system in place that makes it almost impossible to retrieve data after a certain number of wrong

password attempts. The FBI wants Apple to disable this feature, which would allow the FBI to run every possible password until the correct one is found. Apple would have to create a special version of the operating system and then move it onto the phone as an update.

Is this a “backdoor,” or a term used to describe loopholes like master passwords or security risks that are intentionally left in by developers? Or is that word only being used because it has negative connotations and will win Apple support? Hard to tell, but either way, the FBI is asking Apple to weaken their product’s security in a way that could potentially spread beyond just this one instance.

The worry is that the new operating system without the security feature could be stolen from Apple, getting into the wrong hands and allowing anyone to break into iPhones.

Even if Apple manages to keep a tight hold on the weakened operating system, there are worrisome implications that come with it. If the government is allowed to



Courtesy of Flickr user Security Newspaper

force a technology company to let them into an individual’s phone in this case, what’s to say that they won’t keep coming back to the tech company and asking them to do it again and again and again.

One idea is that in this case, there is a clear need for it. There might be valuable data on the San Bernardino terrorist’s phone, and no one is harmed by this particular phone being cracked open.

There’s likely a warrant that makes the contents of the phone legally available to law enforcement, and it’s now just a question of practical possibility.

As long as the government requests and is approved for a warrant, maybe they should be allowed to access phones and other digital possessions.

However, just because they have a warrant doesn’t mean that it was necessary or carefully vetted. For example, there’s already a court that

decides if surveillance requests or justified. Since its foundation in the 1970s, it’s only denied 12 of more than 35 thousand requests. As revealed in the Edward Snowden leaks, some of those requests included things like getting all call details from a phone service provider, for every day the phone was in use — something that many feel is far beyond any reasonable cause.

Regardless of warrants, the United States government has a long history of going beyond the law in the name of national security.

Even for Abraham Lincoln, often considered one of the greatest presidents, constitutional safeguards of liberty were thrown out the window when faced with threats to national security. More recently, in the civil rights era, government agencies used selective enforcement to target so-called “radicals.” If the government

has the capability to do something, they will most likely choose to do it, regardless of the action’s level of legality.

In fact, the government has been forcing tech companies to do their bidding all along. The only reason it’s come to light now is because Apple has enough clout to publicly fight back. Smaller companies, like the email service that Edward Snowden used, folded under government pressure, allowing the government to spy on their services before eventually going out of business.

Even if consumers want more protection from the government and want to use businesses that support individual privacy, they can’t trust in smaller companies that provide those services because of the government’s power to strong-arm them.

And if the United States government sets (or has already set) a precedent of being

able to break into phones and individual’s data, what does that mean abroad or on a global scene?

Protesters in oppressive regimes often rely on the privacy of their data to organize to better their country, but it seems hypocritical to support their right to privacy while denying that right within the United States.

Since 9/11 and the Patriot Act, the United States has swung heavily towards security on the pendulum between individual freedoms and security.

Apple’s refusal to the FBI may be step in the other direction, signaling a country tired of being afraid and no longer as fervent in its pursuit of security at all costs.

Student Pugwash is a non-advocacy, educational organization that discusses the implications of science. This article is a summary of last week’s discussion on privacy rights.



India Price/Online Editor

Illustris software facilitates galactic research ventures

GALAXY, from B7

at an unpredictable rate. By measuring the slope of stellar density profiles in halos, Illustris shows that the slope correlates with the mass of the dark matter halo, thus researchers can estimate dark matter halo mass from stellar halo. Researchers can also estimate galaxy-galaxy merger rates directly from Illustris, which shows that the rates have a strong dependence on z (redshift). This result is in reasonable agreement with data, but astonishingly opposes results from semi-analytical models done in the past using crude methods, which show that merging rates have less to do with z , but a lot with



Theodore Teichman/Assistant Photo Editor

mass. Also, by dragging the time of Illustris to the future, it shows that matter in the universe is moving more rapidly apart, meaning galaxies are more unlikely to merge. Illustris shows promise,

and Hernquist estimates that in the near future, in approximately two months, the team will improve Illustris with refined feedback models. The team aspires to improve performance and scalability.

Infrastructural data-collection improves safety, maintenance

INFRASTRUCTURE, from B7

of the problem. For example, a red image indicates there are many cracks in the road, while a green image could indicate a road that was recently paved. The team can also detect winter road conditions along with cracks.

In collaboration with the Pennsylvania Department of Transportation, Mertz placed the cameras on snowplows, and the team was able to determine the percentage of the road that was visible, covered in slush, or covered in snow. They can also detect the state of traffic signs, and have begun to examine street lamps and land markings.

“Mertz had demonstrated

a viable advancement that may bring inspection technology into the everyday operations,” Dailey said, “making it not only affordable, but practical.”

Carnegie Mellon’s Traffic21 Institute, a multidisciplinary research effort that is a part of Metro21, is one of the organizations funding this smart transportation project.

According to their website, the goal is “to design, test, deploy and evaluate information and communications technology based solutions to address the problems facing the transportation system of the Pittsburgh region and the nation.”

“The work of Mertz

is an ideal example of Traffic21’s vision of research, development and deployment,” Stan Caldwell, executive director of Traffic21 and Technologies for Safe and Efficient Transportation (T-SET), a National University Transportation Center funded by the U.S. Department of Transportation, said in a university press release.

“The exciting stage is deploying the technology in the field, making our region a smart transportation living lab.”

Mertz’s technology has been deployed with the City of Pittsburgh, Marshall Township, Cranberry Township, and with the Pennsylvania Department of Transportation.

HOW THINGS WORK

Wristwatches utilize complex machinery & artisan design

ABHISHEK TAYAL
Pillbox Editor

Mechanical watches are amongst the few objects that can simultaneously be called high tech and high art. They seem simple — a circular dial, two or three hands, and some numbers along the sides.

But underneath this apparent simplicity lies miniaturized mechanisms advanced enough to make most cars look crude by comparison. With no battery life, or threat of two year obsolescence to worry about, these devices just work—often perfectly and without complaint — for decades at a stretch.

Designed and put together by mechanical artists, modern watches pack more technology onto our wrists than any object without electronics has any right to do. Watchmaking, needless to say, is very difficult. Your average Rolex probably contains anywhere from 100 to 300 moving parts, put together by hand in a frame

small enough to fit on one’s wrist. People study watches for anything from four to seven years before they call themselves ‘watchmakers.’

Words like mainspring, balance wheel, escapement, tourbillon, chronograph, and chronometer are just a few examples of the jargon watchmakers use.

While each term might not be as complicated as it may sound, there is certainly some notable engineering going on within each wrist watch. What do these words really mean? Make no mistake, reading on isn’t going to make you an expert; it should, however, explain some of the most basic ideas behind watchmaking.

First up, when people refer to mechanical watches, they’re really referring to two different things — manual and automatic watches. A manual movement, as the name implies, requires the wearer to wind the watch by turning it’s crown, typically once a day. An automatic, on

the other hand, effectively winds itself through the wearer’s hand movements as he goes about his day. Automatics were a huge innovation in the early 20th century, because if

actually being coiled tighter is the mainspring. Alongside the mainspring, watches have what is called an escapement. If we left the mainspring by itself, it would uncoil in a matter



Courtesy of Flickr user Manfred Grimm

one wore an automatic often enough, one never had to worry about whether the watch was wound or not. Some of the crucial components of modern mechanical watches, most of which are actually common between manuals and automatics, are explained here. The mainspring is the power source of a mechanical watch. When a watch is wound by turning the crown, what is

of seconds, sending a watch’s hands into a tizzy and rendering it useless to tell time. The escapement’s job is to act like a brake, gradually uncoiling the mainspring just enough to keep the watch turning at precisely the correct speed to match the time. For this reason, the quality of a watch’s escapement is usually the best indicator of its accuracy. A more deluxe component

of watches is the tourbillon. Very few mechanical watches actually have tourbillons, yet if you were to pick up any watch magazine, you probably wouldn’t make it through one article without finding some mention of a tourbillon.

A tourbillon is considered the pinnacle of watchmaking with regards to accuracy. An escapement can be affected by gravity variations from place to place — thereby decreasing a watch’s accuracy. A tourbillon suspends the entire escapement on a spinning axis, essentially housing a clock within a clock, in order to neutralize gravity’s effect.

Other components of a watch include the balance wheel and rotor. The balance wheel is really the core of the entire movement. Analogous to the pendulum in a wall clock, the balance wheel receives energy from the escapement and oscillates a set number of times per second — essentially ‘keeping the time.’ The rotor is the main

difference between an automatic watch and a manual. The rotor is a semicircular weight that spins freely on its axis as the wearer’s hand moves.

This spin is used to wind the mainspring. Finally, a discussion of watches involves the terms chronometer and chronograph. These two similar sounding words actually mean very different things.

A chronograph is an additional complication to a mechanical watch, much like a tourbillon. Instead of increasing accuracy, however, a chronograph adds a stopwatch timer, to the watch. A chronometer, on the other hand, isn’t so much a complication as it is a badge of honor. For a watch to advertise itself as a chronometer, it must be certified to be exceptionally precise. There are far too many components of modern-day watch mechanisms to explain every one, but this exploration gives both an overview of just how complex watchmaking is.



Forum

LETTER TO THE EDITOR: ACCEPTING DIVERSITY

As graduate student leaders, we want to break the silence about what is going on outside of our school. In particular, we want to address all communities of color at Carnegie Mellon, Muslim students, international students, and the LGBTQ community:

The violence at Trump rallies, which recently occurred in Illinois, Florida, and neighboring Ohio highlight the extremist views of a very small minority of this country. It is, however, a violent part of America that has just been given a clear national mainstream platform. A lot of us find it difficult to believe that it is happening in our country, and feel overwhelmed by it.

Some of you may need to hear

this, so we want to take a moment away from work to say:

No matter who you are, where you come from, or who you pray to, your lives and your voices are valuable in this country.

At Carnegie Mellon, we see and value the diversity that each and every one of you bring to the table day in and day out. Our school and our community are better places because you are here, adding your voice to the discussion and life we see every day. Please remember this as you use your voice and your intelligence to stand up against those who would you treat you as scapegoats. Please support each other in and out of the lab. Remind yourselves of your value.

We would like to also say **do not dismiss what is happening regardless of your race and ethnicity. Get involved.**

Speak out as loudly and as clearly as you are able to. Even Pittsburgh, despite what it might feel like at times and despite what your windowless office might seem like, is very much part of this.

With love and solidarity,

Allies Grad Executive Board

Indian Graduate Student Association Executive Board

Jewish Graduate Student Association Executive Board

#unfairandlovely: the fight against colorism



One of the most common advertisements on Indian television is for a fairness cream, very creatively called Fair and Lovely, that supposedly lightens one's skin color by two shades. Since 1975, these advertisements have featured a young girl with the lack of something, be it confidence, a job, or a husband. Then, a female figure helps this poor, poor girl by handing her the tube of Fair and Lovely, and after using it she becomes radiant, gorgeous, and the object of everyone else's envy after all her dreams come true.

Gender-swapped and introduced after 2005, new advertisements aimed towards the male population introduced Fair and Handsome — the fairness cream for men. In India, this obsession with fairness starts as early as childhood. It is a common practice for children to be scrubbed with turmeric paste, milk, and honey to lighten their skin color. In a culture where arranged marriages are the norm, being fair is often used as selling point for a prospective bride or groom. Throughout one's life, the idea of being fair is tied to beauty.

Not only is this an unreasonable beauty standard, but it also promotes a kind of societal segregation on the basis of skin color, often called colorism. Darker women end up perceiving themselves as inadequate, not beautiful, and incapable. A society that perpetuates colorism often withholds opportunities from women of darker skin, with Indian cinema being the greatest testament to the bias that “fair is beautiful.” This attitude is as harmful as body shaming. No one should have to deal with such an unreasonable point of view.

In response to this illogical demand of society to be fair skinned, Pax Jones along with sisters Mirusha and Yanusha Yogarajah, all students from University of Texas, have

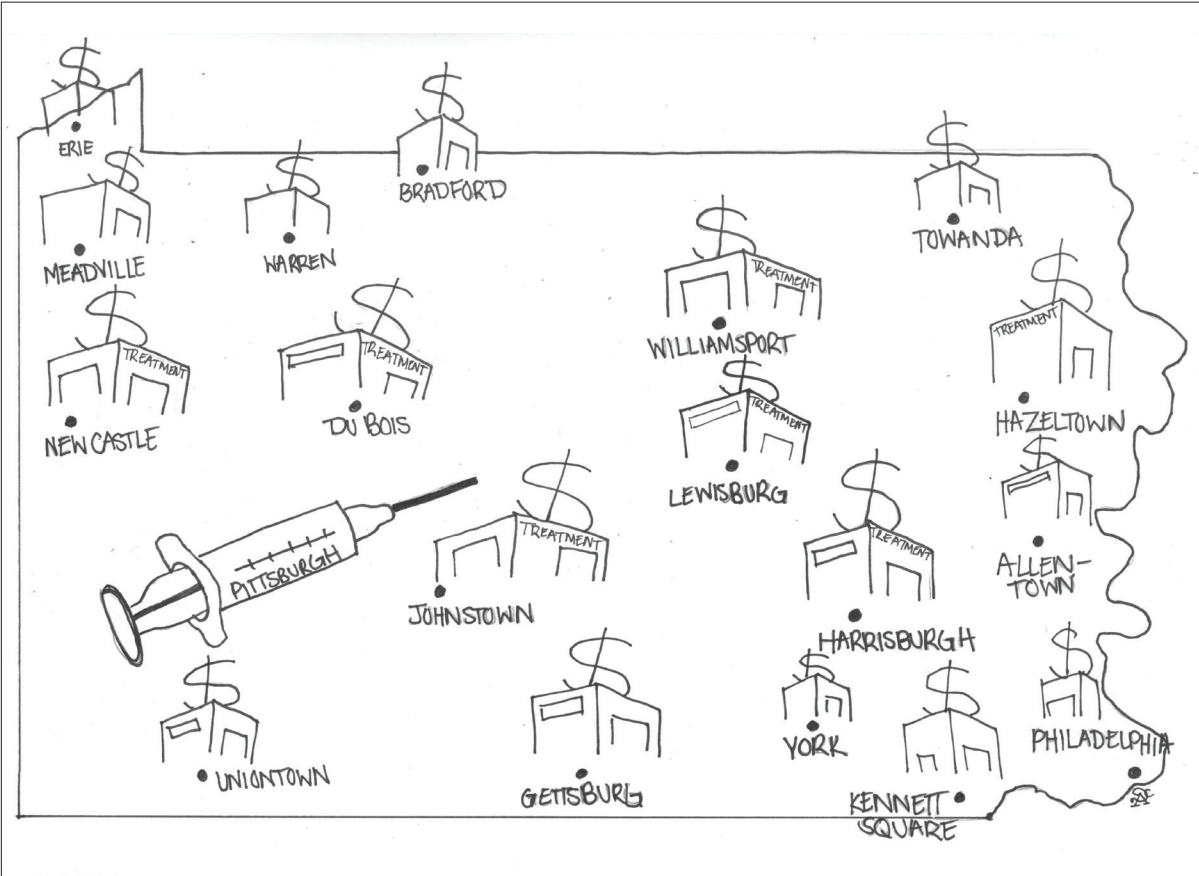
launched a campaign on social media called #unfairandlovely, which brings to light this stigma. By allowing all women to publicly accept themselves by posting selfies with the hashtag, such forms of social change are rapidly gaining popularity among Indian youth. While this movement is a step forward towards rationality, inclusion, and feminism, I still think that it should be more inclusive of men and people in the non-binary gender spectrum. Although I will also say that women face greater pressure to adhere to beauty standards than men. It's high time all people of color “celebrated the melanin” in their skin.

While colorism is definitely an issue, it is also interesting to question how such beauty standards came into place in India. One might say that, with its history of colonization by the British, having whiter skin came to be associated with beauty. It also could be due to the fact that staying indoors came to be associated with wealth and a higher class status.

However, Hindu mythology often speaks of dark-skinned gods, goddesses and royalty, venerating such figures, and speaking of the beauty of their dark skin. While this is not representative of all of India, it does represent a portion of it, where colorism is dominant. Were these stories created at the time to fight against colorism or did somehow, with the passage of time, the perception of dark skin shift?

It's not just India that needs to face the injustice of its beauty standards, but also the rest of the world. Beauty standards are a threat to diversity and self-expression. It doesn't matter if a person has dark skin, a curvy body, or curly hair. It is unhealthy for a society to push its people to model one frame of beauty. Now, this may be obvious, but people have a right to their own body and they have a right to not be judged for it. If you've read Scott Westerfeld's book, *Uglies*, you will see the world where everyone has the same beauty standards as nothing short of a dystopia.

Naviya Singla (@nsingla) is a staffwriter for The Tartan.



Ashley Chan/Staff Artist

each center to hire “one additional provider to identify and treat addiction,” and nationwide, this amounts to doctors being “able to see 124,000 more patients ... in addition to the 23 million already treated.”

However, none of this money will be going to the greater Pittsburgh area's care centers.

Funding was administered on a competitive basis, and while all care centers nationwide were encouraged to apply, there has been no information as to whether Pittsburgh care centers applied, refrained from doing so, or if they were actively rejected.

Pittsburgh is in drastic need of this funding, given that this area has the second-highest heroin-related death rate in the state, with these numbers growing on a yearly basis. Whether or not the Pittsburgh care centers applied for the funding, they should be receiving it due to the dire

Pittsburgh citizens failed to protect those in need of help and treatment.

In the past few years, deaths by drug overdoses have surpassed the number of deaths caused by and related to car accidents in Pennsylvania, and while this is largely attributed to prescription drug abuse, it's in the same vein of addiction. According to a White House profile of the state, Pennsylvania drug-related deaths are higher than the national average, and heroin is cited as the number-one addiction for which treatment centers admit patients.

With drug-related deaths increasing yearly, and Pennsylvania leading the nation in young male overdose deaths, there is a clear problem that isn't being addressed where it matters most.

While one of the newly funded treatment centers is located in Philadelphia, the area of Pennsylvania with the highest rate of opiate abuse,

to combat this epidemic. Within the Appalachian region, drug addiction has been a frightening issue.

Our own senator, Patrick Toomey, has recently spearheaded a bill which would address some serious prescription drug abuse within the state he serves.

While prescription drugs are a necessary evil, and require heavy monitoring, heroin usage is slightly more cut-and-dry. There needs to be more of a focus on rehabilitation and recovery, and without the necessary funding, care centers in the Allegheny area are ill-equipped to handle the growing threat that addiction poses to our community.

Unless our treatment capabilities can grow with the number of drug-related deaths — and hopefully aggressively lower them — the chasm between the problem we must tackle and our ability to do so will only increase.



Sandra Kang/Staff Artist

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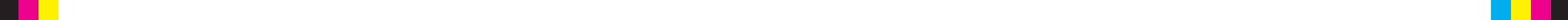
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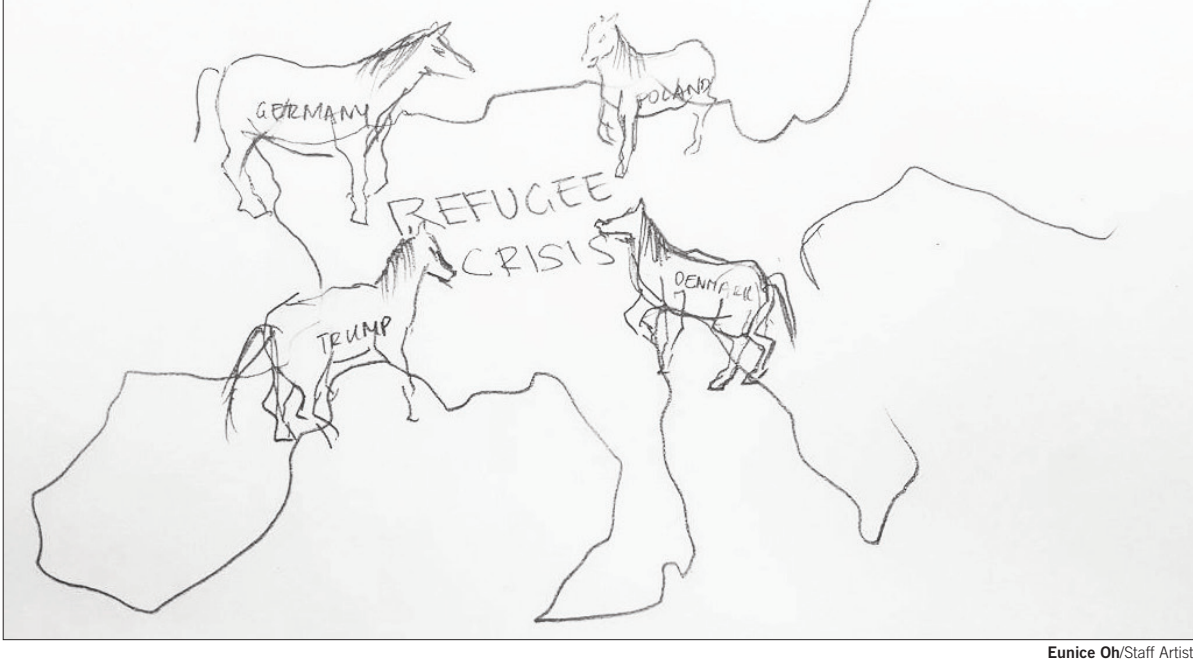
Europe’s rising radical Right conjures specter of violence



ZEKE ROSENBERG

Last Sunday, Germany held regional elections in Rhineland-Palatinate, Baden-Wurttemberg, and Saxony-Anhalt. Frauke Petry’s far-Right party, Alternative fur Deutschland (AfD), made resounding gains in all three elections at the expense of Chancellor Angela Merkel’s Christian Democratic Union and the center-Left Social Democratic Party. This news is worrisome for several reasons. The first is that it comes on the heels of Merkel’s open door policy to Syrian refugees and shows significant xenophobia within the the German electorate. The second is that Germany has been Europe’s strongest economy for a long time and has significant sway over Europe as a whole. Movement toward the far right in Germany would have an outsized effect.

The third reason is a little more chilling. While that previous paragraph may have felt at home in 1932, there are key differences between AfD and the Nazis. The first is that AfD is a much less violent group and less prone to genocide (although this seems like an increasingly frail argument as their policy platform leaks further). The second difference is the powers surrounding the rising AfD. England, France, and other nations



Eunice Oh/Staff Artist

resisted the genocidal drive of the Nazi Party. If Germany does succumb to nativist forces, there might not be a similar power in their path this time. The far-Right in Europe has been on the rise for a few years. Countries like Hungary and Switzerland have been ruled by far-Right parties for years, while countries like Finland and Norway have had far-Right movements as part of ruling coalitions. Poland joined those nations in having a far-Right party in power, while in nearly every country across Europe, groups like Marine Le Pen’s National Front in France and Nigel Farage’s United Kingdom Independence Party have

been increasing their strength in European governments and even threaten to take prime minister titles. Germany has broadly resisted the far-Right to this point, but AfD’s rapid rise to becoming a legitimate political player indicates that those days are over.

The far-Right parties in Europe are somewhat different from America’s political parties. Economic liberalism is pretty much the standard in European politics and their economic policy is rarely subject to major change. However, their Right and Left leaning parties tend to be decided on scales such as foreign policy (Euroscpticism, an opposition to the EU, is a

common buzzword here, as is interventionalism) and cultural politics appeals to national identities (read: white supremacy) are at the core of this branch of policy. This makes the far right in Europe much scarier. To create a parallel to American politics, the far-Right in Europe is not similar to the Republicans; it is similar to short-fingered vulgarian Donald Trump.

The rise of the far right in Europe has been a complicated phenomenon. While the Great Recession absolutely slammed Europe (some countries such as Denmark are still facing negative growth and nearly all of them are peaking close to 0 percent), it is not

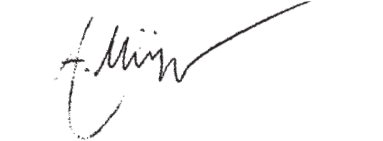
the only struggle the continent has faced. Several horrific policy failures from the North American Trade Organization (NATO) (notably America’s decision to ignore Iraq in 2009 before we were certain the government was stable and NATO’s bombing campaign in Libya that led to the death of Libyan leader Muammar al-Ghaddafi) led to massive numbers of people becoming displaced and fleeing to Europe. Suddenly, many of those people who identify with the right felt their “national identity” was being threatened by the economic hardship and the influx of migrants.

Europe’s response to this is not surprising, but it’s incredibly disheartening. When economic anxieties rise, we ought to band together. Countries that initially resisted these blatant politics of racial resentment like Germany and America are now crumbling in the face of mounting fear that’s being fostered by demagogues like Petry and Trump.

Sure, current events threaten us economically, but the economy is only good for measuring utility on a large scale. If our response to fear is to cut some people from our moral consideration, then talking of things in terms of economics and national security is moot. Slamming our doors in fear and playing hot potato with the migrant crisis gets us no closer to a global solution, but a lot closer to a violent and fractured world order.

Zeke Rosenberg (@erosenbe) is a Senior Staff for The Tartan.

Fight catastrophe with Liberalism



ALP MUEYESSER

A momentous decade awaits the human race. For better or worse, both ends of the political spectrum are waking up from a deep slumber. Climate change is in full swing. Environmental destabilization is fueling unprecedented political insurgencies. At this rate, the Middle Eastern refugee crisis will be a mere foreshadowing of what’s about to happen on a grander scale in Asia.

Ideas formerly dismissed as radical are now in revival. Canadian journalist and social critic Naomi Klein called this effect the shock doctrine, and then wrote an entire book about it, creatively titled *The Shock Doctrine*. Desperate times call for desperate measures, creating the perfect breeding ground for dangerous ideologies.

But then again, just as the crises facing humanity could be used to further malevolent agendas, they might also be our last shot at genuine social change for the better. Klein also wrote a book about this, called *This Changes Everything: Capitalism vs Climate*. “The Right was right,” Klein said.

Climate change is more than the environmental collapse. It is the living proof that we cannot get away with right-wing “business as usual” policies, and hope to have a habitable planet within the next century.

Climate change is the existential threat for the Right, and the momentum we need to put social justice back on the public agenda.

This should be the time when we perform checks on authorities of all kinds, from the patriarchy to oppressive race-relations, from government inspections to the “War on Terror,” from law enforcement to the very foundations of the justice system. This should be the time we demand our colleges to divest from fossil fuels, our governments to stop keeping artificially low oil prices, and, perhaps most importantly, demand each other to empathize and reflect on these structural deficiencies.

We as college students are especially responsible. Despite commonplace condescension and ridicule, the political correctness campaign across colleges nationwide put privilege-checks back on the agenda. Fewer people think it is okay to believe that they could have ended up a place like Carnegie Mellon on pure merit without acknowledging the role of luck or privilege. Ever since the 2008 crash, more students respond “make the world a better place” to inquiries regarding their plans after graduation. Tides are changing, but every social movement can be paired up with its backlash.

GOP candidates like to assert that they value “correctness” over political correctness. They’d rather give you the facts, without fear of whom they might potentially offend. Despite outright doublespeak — the sheer fact of climate change does seem to offend Republican candidates — there is a dangerous sentiment at the heart of that mentality.

The truth of the matter is that unless you are experimenting on gravitational waves, reason and emotion not only coexist, but also are inseparably entangled. Politics and economy are nothing but structural manifestations of differing values. And when any non-scientist attempts to hide their radical propositions under the veil of cold-blooded rationality, that is when the responsible citizen ought to call foul.

When the Reagan-Thatcher-Friedman “cartel” claimed pure rationality in the seventies, it resulted in the greatest income gap seen in modern history, often euphemized as neoliberalism. When Wall Street did it, we had the 2008 crash. When Lenin did it, he inspired the most famous dystopian novel ever written. When Hitler did it, we had the, well, we had a bunch of things happening. A claim to objectivity in government affairs often signals a recipe for disaster.

I’ll have the millennial plea for sensitivity over right-wing claims to economic efficiency any day of the year. Go out there. Get involved. Voting is not the most democratic right you possess. It’s not even close. What you essentially have is a pick between the clown, the chief architect of the rabid Democratic shift to the right, and a self-proclaimed revolutionary. If you honestly believe that as citizens of the freest nation in the world, all you get to do is decide which one of those gets to move into D.C. in November, well, that’s just depressing.

Alp Mueyesser (@nmuyesse) is a staffwriter for The Tartan.

LETTER TO THE EDITOR: CoSO

About a month ago, I received an email notifying me about the 2016 Student Organization Summit hosted by Student Government. The summit was designed to grow and develop student organization leaders to ensure the longevity of our organizations and empower them to increase their sense of belonging. While excited, I sarcastically thought, “Student Government must really love us.” After all, the summit was set to be on Valentine’s Day.

However, the Committee on Student Organizations (CoSO) showed me that they do, in fact, care about the student organizations on campus. Colors@CMU, the organization I’m part of, is fairly new. As a new organization, we were unaware of alternative funding methods such as reaching out to local companies or applying to SURG grants after putting an academic spin on our projects. I still chuckle over how one student panelist from the Organization Fundraising & Corporate Sponsorship Student Panel said that when the Technical Opportunities Conference (TOC) comes around, he does not look for jobs, he asks companies for their money — in a polite way, of course. I realized that information on funding is essential to running a new organization and appreciated CoSO for providing it.

While there were other helpful segments of the summit, I think the most intriguing part was Student Affairs Assistant Director Shernell Smith’s interactive discussion on diversity in student organizations. It was the first time I had ever seen the executive board members of various clubs talk about such a topic. “Who

are you inviting to the dance,” she asked us, “and are you dancing with them?” I was honest. I let the other students in the room know my frustration with the wall between students and various multicultural organizations. How can we encourage more black students to attend OM events, and how can we encourage more Asian and white students to attend SALSA and SPIRIT events? In the case of Colors@CMU, we welcome all opinions on various topics regarding race and diversity because we want to give a space for students to share their different perspectives. I am aware that some people might think our organization only discusses black and latino issues, while in actuality we discuss issues regarding various races and ethnicities. I asked the other students what it would take to overcome this barrier.

The discussion allowed me to hear the perspectives of students from Pugwash, club volleyball, and more. These were perspectives I never heard before and got to embrace. For example, maybe Colors@CMU should host their discussions in first year dormitories, or maybe we should invite RAs to co-host events. It’s crazy when I think this conversation would not have occurred without Trevor Hadick’s email. Maybe the secret theme was love, after all. So, as cheesy as this sounds, thank you Nina Fan, Micah Rabin, Trevor Hadick and the rest of Student Government for being my Valentine’s date. I cannot wait to see what you all will prepare next year!

Chrystal Thomas, Junior, Biological Sciences

TARTANS TALK

Compiled by Sinead Foley

With student government elections right around the corner, we asked,
What are you looking for in a student body president?



Aru Rajeevan
Biology
First-year

“Someone trustworthy and dedicated.”



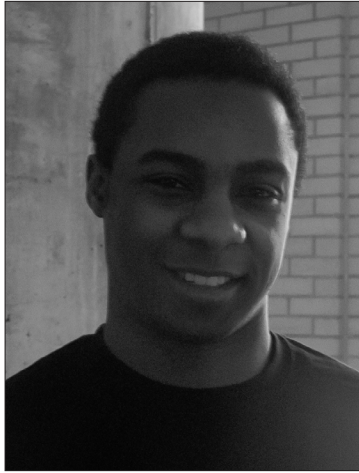
Sebastian Guerrero
Information Systems
Sophomore

“Someone who is willing to change things and solve problems ... Do we even need a student body president?I don’t know what the problems are.”



Linda Yang
Business Administration
First-year

“Someone experienced and reliable.”



Travis Chambers
Information Systems
Sophomore

“Someone who communicates well with the student body.”



Sophia Eristoff
Biomedical Engineering and Material Science and Engineering
First-year

“Someone who is relatable and can connect with the student body.”



SPORTS BRIEFS

Men’s Track and Field

The Carnegie Mellon men’s track and field team sent junior Owen Norley to compete in mile run at the 2016 NCAA Indoor Division III Track and Field Championships. Norley earned sixth place overall and was granted All-American honors after his placement.

Norley posted a personal best time during the preliminary round, but still managed to top himself in the final round with a time of 4:12.58. Norley is the third Tartan to receive the All-American distinction during the indoor season, and the sixth Tartan overall to earn it.

Championships are being held at Grinnell College in Grinnell, Iowa at the Charles Benson Bear ‘39 Recreation and Athletic Center.

The Carnegie Mellon men’s track and field team opened the outdoor season on Friday and Saturday for the Washington and Lee Track and Field Carnival hosted by Washington and Lee University. The Tartans finished the competition with three first-place

showings.

Junior Owen Norley was responsible in two of the Tartans three first-place finishes. Norley won the 800-meter run with a time of 1:54.41, and the 1,500-meter run with a time of 4:00.37.

Junior Curtis Watro won the 3,000-meter steeplechase and bested his own career record of 9:37.04 for the Tartans third and final first place title of the meet.

First-year Isaac Mills and senior Marc-Daniel Julien ran alongside Norley in the 800-meter run, finishing fourth and fifth with times of 1:56.56 and 1:56.57, respectively.

Junior Steven Kool took second place in the 10000-meter run and beat his own career record with a time of 32:23.85. Junior Ryan Archer competed in the 5000-meter run and finished fifth with a time of 15:07.62.

Senior Jeff Chen took second in the 100-meter dash with a time of 11.53. Junior Don Boyer placed fifth in the long jump with a distance of

6.74 meters, and sixth place in the 110-meter hurdles after crossing the finish line with a time of 16.76.

Sophomore Jacob Schofel tossed the discus 41.21 meters and netted himself a second place finish. Schofel also took third in the hammer with a mark of 44.83 meters. First-year Kenny Sladick placed fifth in the hammer with a toss of 40.16 meters.

The Tartans will host the Carnegie Mellon Invitational on Friday and Saturday, March 25-26 at 4 p.m.

Women’s Track and Field

The Carnegie Mellon women’s track and field team opened the outdoor season on Friday and Saturday for the Washington and Lee Track and Field Carnival hosted by Washington and Lee University.

The Tartans finished the competition with two event victories and four third-place finishes.

The 4x400 meter relay team took the victory in their event as first-years Debarati Bhanja and Rose Ciriello, along with

sophomore Sarah Cook and junior Ariel Tian crossed the finish line in 4:02.61. Cook also earned a victory in the 400-meter dash with a time of 59.27. Bhanja was close behind, finishing third with a time of 1:00.94.

Senior Taylor Maggiacomo placed third in the 1500-meter run with a career-best time of 5:00.46.

Senior Liz Snyder placed fifth in the 5000-meter run with a career-best time of 18:08.91. Senior Kira Ragazzo finished just after in sixth place with a time of 18:41.29.

Ciriello placed third in the 400-meter hurdles with a time of 1:10.93, a career-best time for her.

The 4x100-meter relay team of junior Jerilyn James, first-year Autumn Hair, Cook, and Bhanja took third with a time of 50.96. First-year Tessa Allen placed fifth in the high jump with a height of 1.56 meters. Junior Rebecca Fortner cleared the same height.

The Tartans will host the first of two meets on Saturday, March 26 at the Carnegie

Mellon Invitational at 10 a.m.

Men’s Swim and Dive

The Carnegie Mellon men’s swim and dive team competed in the NCAA Division III Swimming and Diving Championships on March 19.

The Tartans finished 28th overall, but first-year Mitchell Riek closed the competition with his third All-American honor. Effort from Riek and first-year diver Gabriel Bamforth kept the Tartans in the contest.

Riek swam the 1650-yard freestyle, and finished the event with a career-best time of 15:37.71. He placed seventh and claimed his third All-American award of the meet.

Riek earned All-American honors in the 200-yard butterfly for finishing third, and he also earned an honorable mention for the All-American award in the 500-yard freestyle, where he placed ninth.

Bamforth finished 17th on the one-meter diving board and 16th on the three-meter board to claim an honorable mention for the All-American award.

Women’s Swim and Dive

The Carnegie Mellon women’s swim and dive team sent two athletes to the 2016 NCAA Swimming and Diving Championship at the Greensboro Aquatic Center in Greensboro, North Carolina on March 19. Sophomore Mary St. John made her first appearance at the event, while her fellow Tartan, junior Machika Kaku was attending for the second time.

St. John swam in three events, with the 200-yard butterfly being her best finish with a time of 2:05.45 to place 17th. This was a career best for St. John, and she fell just a fraction of a second shy of qualifying for the consolation final. St John also competed in the 200-yard individual medley (IM) and the 400-yard IM, finishing 50th and 20th, respectively.

Kaku placed 24th on the one-meter diving board with 327.55 points and 24th on the three-meter with 324 points.

Compiled by
ALEX WOOD



Courtesy of CMU Athletics
First-year swimmer Mitchell Riek pushes his way through the pool lane during the freestyle event on Saturday.



Courtesy of CMU Athletics
Junior runner Curtis Watro sprints his way around the track and over the hurdles during the steeplechase run.

UAA Tennis Standings

Men’s

Univ.	W	L
Chicago	9	1
Emory	9	2
CWRU	11	3
Wash. U.	4	2
CMU	9	5
Brandeis	3	3
Rochester	3	7
NYU	1	3

Women’s

Univ.	W	L
NYU	4	0
Emory	11	2
CWRU	7	2
Chicago	4	2
CMU	9	5
Wash. U.	6	5
Brandeis	2	5
Rochester	2	5

UAA Basketball Standings

Men’s

Univ.	Conf.	W	L
Emory	11–3	20	8
Rochester	10–4	17	8
NYU	9–5	21	6
Chicago	8–6	17	8
Wash. U.	7–7	15	10
CWRU	5–9	12	13
CMU	3–11	10	15
Brandeis	3–11	9	16

Women’s

Univ.	Conf.	W	L
Wash. U.	11–3	23	6
Rochester	10–4	23	6
CMU	8–6	21	7
Chicago	8–6	16	9
NYU	7–7	19	8
Brandeis	5–9	12	13
Emory	4–10	13	12
CWRU	3–11	8	17



Courtesy of CMU Athletics
The Carnegie Mellon women’s basketball team huddles together in anticipation to prepare for the next game.

Upcoming Events

Men’s Track and Field
CMU Invitational
at Carnegie Mellon
March 25, 4 p.m.

Men’s Golf
The Hershey Cup
at Hershey Country Club
April 3, 10 a.m.

Men’s Tennis
vs. Washington College
at Carnegie Mellon
April 1, 4 p.m.

Women’s Track and Field
CMU Invitational
at Carnegie Mellon
March 25, 4 p.m.

Women’s Golf
Grove City Invitational
at Grove City Country Club
April 2, 1 p.m.

Women’s Tennis
vs. Westminster
at Carnegie Mellon
March 21, 4 p.m.

Sports

Women’s basketball fights and falls in NCAA tournament

IAN TANAYA
Assistant Sports Editor

The 25th-ranked Carnegie Mellon women’s basketball team recently participated in the 2016 NCAA Division III Women’s Basketball Championship. The Tartans won their first round matchup against fifth-ranked Hope College and their second round game against 14th-ranked Ohio Northern University before falling in the sectional semi-final to 10th ranked Washington University in St. Louis. The Tartans finished 21–7 overall, tying the 1990-91 team’s school record for the most wins in a season.

On March 4, the Tartans opened their run in the tournament with a 73–72 victory against Hope College. The Tartans got off to an early lead, shooting for 50 percent from the field and amassing a 21–12 lead in the first quarter. During the second quarter, the Tartans out-rebounded the Flying Dutch 13–5 and scored 11 second-chance points off six offensive rebounds, heading into halftime with a 39–28 lead. In the third quarter, Hope started to make a comeback, outscoring the Tartans 25–21 as Carnegie Mellon’s lead was cut to seven points. Both teams fought hard as time ticked down in the fourth quarter. With 2:17 left in regulation, the Tartans held a slim 68–67 lead. A three pointer gave the Flying Dutch their first lead since making the first basket of the game, but junior center and forward Lisa Murphy quickly tied the game up 70 apiece. The Flying Dutch

retook the lead with 21 seconds left, but Murphy earned three points for the Tartans after making a shot and converting an ensuing foul shot. Hope College made one last run to try and take the victory, but Murphy came down with the defensive rebound as time expired. Murphy closed the game with 25 points and 14 rebounds while senior forward Liza Otto tallied 19 points. Senior guard Lindsay Poss finished with 14 points and 12 rebounds. The Tartans finished with 50 rebounds to 31 for Hope and 24 second-chance points.

On March 5, the Tartans defeated Ohio Northern University 68–65. The Tartans shot 53.8 percent in the first quarter while holding the Polar Bears to 31.6 percent, but had just a three-point lead after turning the ball over seven times. Two free throws by junior guard Jackie Hudepohl gave the Tartans their largest lead of the period at 13–6 with 5:06 to go. Hudepohl and Amy Bullimore of the Polar Bears led all scorers at the quarter break with eight points apiece. The Tartans grabbed 11 defensive rebounds while the Polar Bears made just five of their 20 attempts from the floor. The Tartans put nine shots in the basket and pushed their three-point advantage to 14 when Otto drained a three-pointer from the left wing for the last basket of the half, giving the Tartans a 39–25 lead at the break. A 14–2 run by the Polar Bears cut the Tartans lead to four with 4:56 to go in the third quarter, but the Tartans closed the third with an

11–6 run to hold a 10-point advantage heading into the final quarter. A 14–5 run through the first six minutes of the final period pulled the Polar Bears to within one point, and Ohio Northern later got their first lead since the first bucket of the game on a jumper in the paint with 2:32 to play. The Tartans answered and retook the lead on the next possession when Hudepohl drove the baseline and banked in a jumper in front of the hoop. After a defensive rebound by Otto gave the Tartans back the ball, first-year guard Jenn Mayberger found Murphy down low for a layup and a three-point Tartan lead before another shot by Ohio Northern brought the lead down to one. Poss was fouled with 12 seconds left and made one-of-two free throws but Otto grabbed the board on her miss and was fouled, sending her to the line with a two-point lead. Otto made the first but missed the second leaving an opportunity for the Polar Bears to tie the game; however, a last second three-pointer by Ohio Northern hit the rim and bounced to the floor advancing the Tartans to the sectional round of the NCAA Championship. Hudepohl led the Tartans with 20 points while Murphy tallied 17 and became the program’s all-time leading scorer with her 11th point of the game and now has 1,602 career points. Poss grabbed a team-high 13 rebounds to go with 12 points while Otto dropped in 11 points. Mayberger scored six points and grabbed nine rebounds to go with three assists.



Courtesy of CMU Athletics

Junior guard Jackie Hudepohl beats a defender to a jump shot in the Tartan’s final NCAA tournament match.

On March 11, the Tartans fell to UAA rival Washington University in St. Louis 75–69. Back-to-back jumpers in the paint by Hudepohl gave the Tartans a 19–15 advantage going into the second quarter after four ties and two lead changes. The Tartans held their largest lead of 11 points with 1:45 to play in the second quarter and had a 33–26 halftime advantage after the Bears ended the period with two made buckets. Hudepohl was 6-of-6 from the field for the half and tied with Murphy for the leading scorers of the half with 12 points each. In the third quarter, the Bears retook the lead after making six of nine shots. The lead

changed hands twice while the score was tied on three occasions through the final five minutes of the quarter with Washington University holding a slim 48–46 lead at the final break. The lead would swap hands nine times with the Tartans holding a 61–60 advantage following two free throws by sophomore guard Anna Novak with 4:16 to play. The Bears then went on an 8–0 run to grab their largest lead of the game, 68–61, before Hudepohl stopped it with a three-pointer from the wing with just under two minutes to play. Otto drained a jumper to pull the Tartans within two, 71–69, with 29 seconds to go but the Bears converted 4-of-4

from the free throw line to close out the game. Murphy led all scorers with 23 points while Hudepohl finished with 20 points, eight rebounds and seven assists. Otto closed her career with 11 points while Poss tallied nine and grabbed nine rebounds in the final game of her career.

The season has been full of ups and downs for the Tartans. Though they weren’t able to make it to the final rounds, the season has undoubtedly been a success for the Tartans, who advanced all the way to the Sweet 16 before bowing out. The Tartans have fought hard all season, and the next one will certainly be worth looking forward to.

Golf travels south for UAA championships, takes third

JORDAN SAFER
Staffwriter

While the vast majority of students were enjoying spring break, a few Carnegie Mellon athletes sacrificed their time for a two-day conference battle on the golf course. The Carnegie Mellon Women’s and Men’s Golf teams took on their University Athletic Association (UAA) opponents on the grounds in Sorrento, Florida for the UAA Championships. The championships both took place across the weekend of March 12 and 13.

On the women’s side, sophomore Summer Kitahara shined, and was named tournament champion for her efforts. Building off of an 82 on Saturday, Kitahara came back with a 76 stroke round on the second day, tying teammate and first-year Carly Jordan for the lowest one round stroke total in the tournament.

As a team, the women finished third after two days, in what amounted to a solid showing on the course. Carnegie Mellon fell a bit behind rivals Washington University in St. Louis and New York University on the first day, with a first round score of 364 leaving them 37 strokes out of second place. But the women saw significant improvement on the second day, recording a 21-stroke improvement day to day for a total score of 707.

The stroke counts for the women were a bit higher than those from the previous weekend when they competed at the TaylorMade-Adidas Intercollegiate Tournament in Dataw Island, South Carolina, where they recorded a 686, but given Kitahara’s impressive display, this still showed strong Carnegie performances. The women also played without a few team members, including a frequent low scorer in sophomore Emma Hoskins.

The Tartan men found



Courtesy of CMU Athletics

Junior Jordan Klodowski swings his driver in the UAA Championships.

some success in a different format, going 1–1 in a match play format championship set up on their way to securing third place at the event. Junior George Qian secured All-tournament recognition for his team leading performances, recording wins in his head to head matchups on both days.

The Tartans opened up against Emory with a tough setback, contesting almost every individual matchup, but still falling 5–1 with many close losses. The team’s sole win came from Qian, but was not enough to advance the squad to the final.

However, the group rebounded on Sunday, taking down New York University 4–2, led by a 4–2 win from Qian, and wins by sophomores Nikhil Mohan and Adrian Del Bosque. The deciding fourth victory came from junior Jordan Klodowski, who won his matchup 3–2 to seal the result.

While neither team performance was outstanding, both teams showed they have the strong play to be competitive going forward. Both teams will look for consistent depth to back up large contributions from their top performers.

For the women, great play from Jordan, who finished 3rd overall at the UAA championship, shows potential for

a team with two individuals scoring under 80 strokes in a round, and the ability to have all five golfers scoring under 85 strokes bodes well going forward.

The men similarly have the chops to put a strong group behind Qian. Four other men, Mohan, Del Bosque, Klodowski, and junior Brad Jennette have all recorded scores of 75 strokes or lower, showing the team’s capability to score well under 300 strokes in a round if everyone can play consistently.

Both the men’s and women’s teams will now look for a qualifying bid to the NCAA championships in May, although this will be a challenge without the benefit of an automatic bid available in many conferences.

Continuing the following week at the Jekyll Island Collegiate Invitational, the women have shown a spark in their first two rounds, recording the lowest team score for a round in program history with a 318 in the second round. The men have also had success so far, recording an impressively low round score of 293 in the second round. If the teams can extend their success, the results may bode well for a shot at an NCAA championship qualifier.

Women’s tennis continues its path to UAA domination

ALEX WOOD
Sports Editor

The Carnegie Mellon University women’s tennis team faced off against the Grove City College Wolverines on Wednesday, and the Tartans dominated their opponents throughout the competition to end the day with an impressive 9–0 victory. The Tartans improve to 9–5 on the season with the victory and are now ranked 7th nationally.

The Tartan women opened the match with explosive offensive play that netted them three victories in doubles play, each with a score of 8–0. The duo of junior Nicholle Torres and first-year Charlotte Deiss quickly swept their match in the second doubles position, while the tandem of sophomore Cori Sidell and first-year Minami Makino did the same in first doubles. The final duo

to complete their match was senior Brooke Tsu and first-year Marina Selenica in third doubles to finish the doubles sweep.

At this point, the future of the match looked grim for the Wolverines. A comeback was still possible, but it was visibly evident that the Tartans had completely outmatched their opponents. Despite their growing lead, the Tartans did not become complacent. Carnegie Mellon maintained pressure for the entire competition and there seemed to be no stopping them.

Singles play proved to be no different than doubles as the Tartans picked the Wolverines apart, winning with straight set victories in every single match. Makino started the singles action off with the first point for the Tartans in a clean 6–0, 6–0 victory in third singles, and Selenica followed

her lead to win by the same score line in fourth singles. Tsu did give up points in her singles sets, but she showed no signs of weakness as she took the match 6–1, 6–1 in first singles to put the Tartans up a comfortable 6–0. Deiss maintained the tempo by winning 6–1, 6–0 in sixth singles, and first-year Jamie Vizelman showed promising play as she dominated her second singles match 6–0, 6–0. Senior Abbey Hamstra finished the day by winning 6–1, 6–1 in fifth singles, earning the ninth and final point for the Tartans.

The Tartans will use this success as a confidence boost, but by no means will they underestimate their next opponent because of the win. The Tartan women take on Westminster College at home on Monday, March 21 at 4 p.m., and they are going to be hungry for another victory.



Courtesy of CMU Athletics

First-year Minami Makino prepares to continue a volley during the match against Grove City on Wednesday.

pillbox

The Tartan's arts and culture magazine



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Animated movie with a deeper meaning for children & adults

Greek Sing • C7

The annual philanthropic musical gathering was bigger than ever before

Tales from Abroad • C8 & C9

Los Angeles and Honduras make for interesting, if contrasting, places to visit

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Zootopia uses metaphors to explain real problems

Disney's new animated feature cleverly combines pop-culture with deeper meaning



Courtesy of Moovi Trailers via YouTube

A peek on the witty take Disney achieved to mirror our world, right down to the brand names and slogans.

The buzz behind Disney's newest animated film *Zootopia* before its release on March 4 was much less loud than Disney is used to. The trailers set up a world where animals have evolved to be sentient and civilized, living amongst each other peacefully, and an unlikely pair — bunny and fox — have to solve a mystery.

Would it be a buddy cop movie? A kid-sized procedural à la *Law & Order*? Or a 90-minute excuse for Disney to use all of the clichéd animal puns it's gathered over the years? After watching *Zootopia*, however, the answer becomes entirely clear. While it is all of the above, it also happens to be so much more.

Rabbit police officer Judy Hopps, voiced by Ginnifer Goodwin, must team up with fox con artist Nick Wilde, voiced by Jason Bateman, to solve a missing otter case. In the process, they stumble onto a larger conspiracy that could threaten the peace of the animal world.

The first ten minutes of *Zootopia* is dedicated to exposition. A flashback to Judy as a child shows her participating in a school play with her classmates, explaining that a long time ago animals were savage predators and prey were tireless enemies. But now

animals are civilized: they wear clothes, they go to work, they use smartphones, and, most importantly, they live in a world where any animal can grow up to be whatever they want to be.

Judy, a rabbit, daughter to rabbit farmers, proclaims that she wants to be a cop in the big city. She is quickly shot down because she is a bunny, and the police have never had bunnies on the force before. This, the world of *Zootopia*, is not completely unlike our own. Equal opportunity is more theoretical than practical and the idea that anyone can be anything is much more complicated than our childhood dreams.

It is clear that Byron Howard and Rich Moore, the directors of this film, had two goals in mind when creating this film. They wanted to create an entertaining, wildly spinning adventure through a tightly crafted and richly rendered world. They also wanted to introduce kids and possibly re-introduce adults to an approachable vocabulary about racism in our country.

Similarly to how Disney Pixar's film *Inside Out* used metaphors to personify emotions and humanize the world of mental health, *Zootopia* uses the dynamic of predator and prey to comment on topics that have

dominated the media in the wake of movements like #BlackLivesMatter, which was created to address the racism still pervasive in a society that often claims to be "post-racial."

The film shows examples of racism, bias, stereotyping, cultural appropriation, microaggressions, white supremacy, and tokenism.

At the same time, it only barely hints at any direct correlation for racism in our own world. In one scene, Judy informs her cheetah co-worker Clawhauser that the word "cute" is only okay when bunnies say it to each other, but not so much when other animals say it. This is a clear example of cultural appropriation and it mimics our own discussion of who can say certain words in our culture.

At the same time, Nick the fox is instantly accosted when he enters a store because the store owner believes that he will steal something, a story ripped straight from the experience of many young black men and women.

The situations are handled incredibly well, and the audience gets what's happening without feeling like they are being preached to. Not only is *Zootopia*'s content meaningful and introspective, it is also delivered in one of the most enjoyable packages I've experienced in animation in the last few years.

The script is rife with the aforementioned animal puns. At one point, Chief Bogo, a buffalo voiced by Idris Elba, starts a meeting by "addressing the elephant in the room," at which point the camera reveals an actual elephant who's celebrating her birthday. The rye humor of filling the Department of Motor Vehicles office with sloths is definitely not lost for any adult who's had to block out an entire day in order to get their license renewed.

The film is also gorgeously animated, painting varying landscapes like dark rain forests and scorching deserts in equally impressive detail. Each animal has an extremely wide range of emotions unique to their body (Judy's ears clue us into her emotional state as much as her words do), and this is only improved by the star-studded voice cast.

Zootopia is an important film, and an incredibly fun and moving piece of cinematic animation. It shows that while it may not be the easiest to break down important concepts such as inequality and bias for such a young audience, it's an endeavor worth pursuing if we want our society to truly be one in which everyone is afforded the same opportunities.

Razghiem Golden | Junior Staffwriter

Le Melon: Bangkok Balcony is Thai food at its best

From their Yellow Curry, to their unique Ice Tea, this is a place you'll want to return to

[**Apeksha Atal** | Staffwriter]

A couple of weeks ago I had a friend visiting from Princeton and, as usual, we were scrambling to find a place to eat. He lives in Pittsburgh, and went to high school here, but somehow had never heard of Bangkok Balcony, despite the fact that I — after spending a mere year and a half living in Pittsburgh — have eaten there a good five or six times. He wanted Thai food, I knew where to take him, and by the end of the meal he was scratching his head, wondering how he had never eaten there before. And that's no surprise, it is a little difficult to find.

Bangkok Balcony is nestled on the second floor of a building in Squirrel Hill, above a mattress store, but it has a decently visible neon sign indicating its presence at the entrance, where there are stairs leading up to it. The stairs are a little steep here, and to the best of my knowledge there isn't an alternative wheelchair accessible entrance, so if you're planning to take someone who has trouble with stairs, err on the side of caution.

What strikes me the most about the restaurant is its incredibly charming atmosphere. The view from the large window that takes up an entire wall of Bangkok Balcony looks out over Forbes. At night, when cars are driving past, and the bold neon that lines the window pane lights up, the view is unexpectedly gorgeous. I would highly recommend going around sunset for an enchanting experience. The waiters are wonderfully kind and accommodating, and the decor is a wonderful mix of reds and golds, with token Thai decorations.

Instead of your typical tablecloths, the tables are topped with a white paper cover, and in the past the waiters and waitresses have been kind enough to let me borrow a pen to doodle on its surface until my food arrives. The silverware is a little heavy and has handles that are swirled at the ends, and the food is bright and full of flavor.

A typical dinner dish here costs between 13 to 15 dollars, but the portions are pretty big, so you'll most likely be packing things up for round two unless you've got a big appetite. If you're looking for something that's easier on the wallet, I would go for lunch. The lunch special here includes a wonderfully light soup with fresh tofu and a side salad along with your meal. If you order that, a drink, and maybe an extra side then you can still keep your order value under \$15 and have food left to take home with you.

Bangkok Balcony's facade faces Forbes avenue in Squirrel Hill. If you have a window table, this makes for an absolutely stunning view around sunset time.

Yellow Curry: This classic sweet Thai curry is one of my favorite things to order at Bangkok Balcony. Most of their curry, noodle, and rice dishes come with the option of adding one of many proteins, and for this I usually go with chicken. What's most intriguing about this dish are the beautifully cooked sweet potatoes. You can cut through them like butter, and they complement the coconut flavor incredibly well. I might even go as far as to say I could do without the chicken. It wasn't on the lunch specials menu though, which was incredibly disappointing, but if you're going for dinner, ORDER IT.

Red Curry: Coconutty and spicy, sharp and smooth all at once. This is the curry to go for if you're not particularly into the whole concept of sweet mains. I will say, though, that as the spice level goes up, so does the chilli flavor which masks the coconut more than I personally would like. So I go for the less spicy option, but if you like the chilli then I say go for that 10 out of 10 spice level.

Duck Curry: If you're not into duck, I would be a little wary of this one. It's got a very heavy duck flavor to it and the curry is very sweet and a little watery. I personally was not a huge fan, but I know people who love duck and were quite pleased with this dish.

Lemongrass Noodles: These are flat noodles (sort of like pad kee mao) with a great and hefty lemongrass and basil flavor to them. If you've never tried flat noodles and you love the fragrant end of the Thai flavor spectrum, then I would try these. This

is also one of the more popular dishes, and is great irrespective of spice level.

Crab Rangoon: Crab rangoon is one of those hit or miss kind of dishes, and Bangkok Balcony's salty rendition is a definite hit. The filling is a fine purée that holds itself together, and the outer shell is crispy and delicately crafted. The sauce that comes with it, however, is very sweet, so I personally just dip a small corner in, lest the sweetness overwhelm my palate. They're also so pretty to look at.

Pad Thai: Pad Thai is somewhat of a defining dish for any Thai restaurant. It sort of echoes the level of mastery of an establishment, given its simplicity and high popularity. For Bangkok Balcony, the Pad Thai was about a 7/10. It has a great balance of flavors, and the noodles were made well, but there was no wow factor. It was a typical Pad Thai that would go well with some curry or a meat dish, but I don't think it fares as well as a stand alone dish.

Veggie Tofu Soup: This sounds like a boring dish, and I honestly wouldn't have tried it had it not been a part of the lunch special, but it's really an unsung hero. It's incredibly light, and the vegetables are flavored and go very well. The best part about this soup, however, was the tofu. It was melt-in-your-mouth soft, and didn't taste like that store-bought stuff you usually get at Asian fast food restaurants. It tasted fresh, and the soup as a whole was very refreshing.



Apeksha Atal | Staffwriter



Hot tea with dinner, as you might've figured by now, is something that I have regularly. Bangkok Balcony has a decent tea selection including: House, Oolong, Jasmine, or Green. I've so far tried the Oolong, Jasmine, and Green tea, all of which taste pretty much like your run of the mill generic store-bought brands. That's not to say they aren't satisfying. The more bitter flavors complement a coconut-flavor heavy meal that one expects in Thai food really well.

Thai Iced Tea: If you've never had Thai Milk Tea before, I apologize on behalf of all of those who should've ordered it for you and never did. It's positively delicious, and this is coming from a lactose intolerant person. Thai milk tea is a sort of iced chai, but packed with very rich Thai flavors. It's a great way to balance out any spice in your meal because it's cold, milky and sweet.

Cha-ching: The place takes cards and cash, and ranges from medium to high prices. It's pretty reasonable if each person just gets a main and a drink for dinner.

Carnivores, Omnivores and Vegetarians: There are vegetarian versions of pretty much every dish that can have meat added to it, as well as shrimp for all you pescatarians out there.

Rash Alert: GLUTEN-FREE OPTIONS ARE AVAILABLE, and the servers are always more than happy to let you know what is in what in case you have any severe allergies.

Are we there yet?: Take any of the 61's up to the Forbes and Murray intersection and then stay to the right side of the road and keep walking down. It's above a mattress store called "Levin Mattress." Here's the address: 5846 Forbes Ave, Pittsburgh, PA 15217. (It's also VERY close to Everyday Noodles).

Click, click: The website is quite comprehensive. It's great for looking at menu items and delivery options and it has tons of information about the restaurant. Definitely worth checking out: <http://bangkokbalconypgh.com/>



Apeksha Atal | Staffwriter

For those stay-at-home days: They deliver! (Not if you're too far away though). Call 'em and find out if you can have something delivered to your doorstep: (412) 521-0728. This is also the number to call if you want to make reservations or inquire about the menu.

Hours:
Sun – Thu: 11 a.m. – 10 p.m.
Fri & Sat: 11 a.m. – 11 p.m.

21+: They've got a full bar and from what I've heard pretty good cocktails, and they also do mocktails.

Ambience: Every time I've gone, the staff has been very friendly and they know the menu quite well, so it was easy to get recommendations for meals and whatnot. The decor is simple and tasteful, and is a nice take on traditional Thai art and more

Bangkok Balcony's Crab Rangoon is filled with a fine purée and accompanied by a sweet red sauce.

contemporary design. It isn't an awfully huge restaurant, but I have yet to go and have to wait more than five minutes for a table. Overall descriptors: simple, charming, and warm.

College student friendly?: As was previously mentioned, some of the options for dinner are a little on the pricier side, but other than that I feel like I see more college students there than in other places. I've also seen lots of college students bring their parents here for dinner, so it's got a nice mixed atmosphere.

Overall rating: 

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Carnegie Mellon University

Artist Profile: John Corbett and the Relatives

A new pop-rock band on campus that brings back good old hands-in-the-air jam music

It's always cool to be in a band. One of the coolest new bands on campus is called 'John Corbett and the Relatives.' The cool people who make up the band are, you guessed it, a cool guy called John Corbett, a junior computer science major, and his cool friends Anthony Nitche, a junior architecture major, Abigail Adams, a sophomore studying music, and Evan Bergeron, a junior studying mathematical sciences. Carrie Qiu, a senior chemical engineering and biomedical engineering double major, joins them sometimes to provide vocals. As you can see, the whole thing is pretty cool.

John Corbett and the Relatives is an informal group of friends who mainly cover pop-rock songs by bands like

Green Day, Blink-182, and the Foo Fighters. We spoke to Corbett and Nitche about how they started the Relatives, what their process is, and how they got into music in the first place.

For the people who don't know professor Riccardo Schulz, he runs the Carnegie Mellon recording studio. In addition to that and teaching all the recording classes, he is one of the coolest and nicest people on campus. Many collaborations have come out of Schulz's classes, largely due to Schulz's active involvement in bringing people with similar music interests together. This case is no different, with most of the band meeting in Schulz's classes. Both Corbett and Nitche agreed that they've never been part of

a band formed "on purpose," and most were formed spontaneously.

Corbett is also part of Bergman, which is known at Carnegie Mellon for being one of the best contemporary jazz and funk bands on campus. In the meanwhile, Nitche is working on a solo project called 'Lost in Site.' The Relatives was formed mostly for fun and their objective is to cover popular songs, play at parties, and have a good time. As the members already have more musical commitments, the Relatives is focused on being enjoyable and informal. Often, the Relatives end up playing songs that stem from middle-school nostalgia, and are more spontaneous than technical. Skilled musicians playing fun old-school songs will take you back to your middle and early high school days, when the stress was low and the volume was high!

When asked about their process, both Corbett and Nitche agreed that the idea for every song they do is started by one or two band members, and then everyone chips in to form a complete song. Having more than one or two people come up with an idea for a song does not work and gets very chaotic, as everyone has different tastes and musical backgrounds.

With regard to musical background, Corbett's story is very interesting. Growing up, he was often exposed to his dad's guitar playing and took it up himself when he was 11, just because he thought it was "cool." Before long, he found himself in a band with a skilled guitarist and drummer. Ultimately, he picked up a bass and began taking lessons. His earliest inspirations were jazz legends like Miles Davis and Coltrane.

Nitche, on the other hand, had a very different entry to the world of music. Suffering from Asperger's syndrome as a child, Nitche had problems socializing growing up as it was a struggle communicating with others. His life changed when he went to see *Titanic* and was captivated by the soundtrack. Immediately deciding to start learning music, Nitche undertook classical violin training. By his teenage years, he was communicating most of his feelings through music and took on more popular styles, diversifying from his classical training. He is always looking to discover new styles and become fluent with them. As a member of a pop-punk band, Nitche says he often finds himself uniquely positioned to incorporate violin into rock.

Both members noted that people on campus looking to get involved with or start a band should make friends to jam with, play music with them as often as possible, and take every gig they can get. Instead of looking to start a band, look for people to play with.

Rohit Harlalka | Assistant Pillbox Editor

John Corbett plays the bass guitar for the Relatives.



Courtesy of John Corbett



Greek Sing is a music and dance extravaganza

Fraternities and sororities at Carnegie Mellon put on elaborate performances for charity



At 5:30 p.m. last Saturday, the Soldiers and Sailors Auditorium was packed with countless excited members from 16 of the campus's Greek organizations and their friends, families, and professors eagerly waiting for them to perform. There were teapots and clocks, school children and fairytale creatures, and an anxious audience murmuring and taking quick pictures before the show started. At 5:45 p.m., the five-minute warning lights lulled half of the audience into anticipatory silence, and the Greek organizations into a hushed frenzy, as makeup was touched-up and final best wishes were exchanged. As the house lights dimmed and the stage lights flashed, overall Greek Sing chairs Amanda Branson, a junior humanities and arts major of Delta Gamma, and Erin Persson, a senior civil engineering major of Kappa Alpha Theta, graced the stage in black evening gowns to start the show.

Greek Sing is an annual philanthropic event put together by Carnegie Mellon's various sororities and fraternities. The show serves to combine fundraising for charity with the infectious delight of musical theater. This year the show sponsored Our Clubhouse, an organization that supports families and individuals who have been touched by cancer. Greek Sing set a goal to raise \$160,000 for Our Clubhouse over the course of two years and, much to the delight of everyone in the auditorium, succeeded that night.

As for the show, each organization was given fifteen minutes to perform their piece. There were two categories for the evening: singles and doubles. The doubles were collaborations between fraternities and sororities, and the performances were high-energy renditions of full-length musicals complete with a band, dancers, singers, actors, intricate set designs, costumes, and makeup.

At the end of the night, the trophy for first place went to the incredibly costumed and wonderfully

quirky performers of Delta Gamma and Phi Delta Theta in *Shrek*. Their singing was soulful, and the great attention to detail that lingered throughout each number made the performance wholesome and enjoyable. They stayed true to both the musical and the Dreamworks classic that we have all come to know and love.

In second were the sisters and brothers of Delta Delta Delta and Alpha Sigma Phi with *Mamma Mia*, with a co-lead who bore an astonishing resemblance to Meryl Streep. What stood out here was the meticulous fusions between dialogue and song. From the father-conundrum that arose in "Voulez-Vouz" to the captivating performance of "Lay All Your Love On Me," *Mamma Mia* did not disappoint.



In third were the stylish and polished members of Kappa Alpha Theta and Sigma Chi in *Chicago*. The choreography was clean and each and every number was executed with finesse, both from the singing and dancing perspective.

While the winners are set, I want to take a moment to recognize the other notable performances that contributed to making the evening wonderful.

Kappa Kappa Gamma and Delta Tau Delta's *Beauty and the Beast* was perhaps the most intricately choreographed performance of the evening, with major credits going to Sarah Deluty, a sophomore neuroscience major. The ensemble brought life to the stage, and the leads were expressive and true to their roles. All-in-all, it brought an old Disney classic to life, and I wouldn't have had it any other way. Alpha Chi Omega and Kappa Sigma's *Matilda* was something unexpected and heartwarming. *Matilda* is one of those stories that many of us found comfort in as young readers, and seeing it come to life was magical. Last,

but certainly not least, Alpha Kappa Delta Phi and Pi Kappa Alpha brought to the stage a Carnegie Mellon themed version of everyone's guilty pleasure, *High School Musical*.

As for the singles, it was a face-off for the winning position between Sigma Alpha Epsilon and Alpha Epsilon Pi, performing the first and second half of a mash-up of *The Magic School Bus*, *The Wizard of Oz*, and *The Pink Panther* titled, respectively, *The Gizzard of Oz* and *The Path of Justice* (*Justice*).

Sigma Alpha Epsilon lived up to their reputation of performing a sort of free-form, "YOLO" play, which left the audience in tears of laughter. The story followed the path of an appendix seeking to find purpose in life, who encounters Ms. Frizzle and the gang on their journey into the human body of an insanely unhealthy fourth grader. This transitioned into Alpha Epsilon Pi's story of the investigation of said fourth grader's untimely unconsciousness, with a friskier Ms. Frizzle and a detective with knack for circular reasoning. The award for first place ultimately went to Alpha Epsilon Pi, but I think I can speak for everyone when I say that the two performances were like Ying and Yang, complementing and bringing out the best in one another.

If you didn't go to Greek Sing this year, be sure to check it out next year. All the organizations put in a lot of effort for a great cause and a great evening. It really is something special.

Apeksha Atal | Staffwriter



All photographs courtesy of **Joshua Brown** | SciTech Editor

Top: *The Hunchback of Notre Dame* — by Alpha Phi Omega and Sigma Phi Epsilon. **Centre:** *Shrek* — by Delta Gamma and Phi Delta Theta **Bottom:** *Chicago* — by Kappa Alpha Theta and Sigma Chi

Tales from Abroad: Los Angeles & Honduras

Our writers share contrasting experiences from two very different parts of the world

Los Angeles: The ultimate mecca of consumerism

Josh:

We hopped off the plane at LAX, with just a dream and a cardigan. “Welcome to the land of fame and sex,” Jade said.

“Am I gonna fit in?” I asked.

She said, “No.”

It was my first experience with time travel. We left Pittsburgh, PA at 6:45 a.m. Three hours, fifteen minutes, and 2,200 miles later, we arrived in Los Angeles, California, at 7 a.m. Having become accustomed to the cold, black void that is a Pennsylvania winter, I was immediately taken aback at the discovery that Los Angeles has been stockpiling all of the United States’ sunlight reserves. Sunlight is vital to our survival; it feeds our plants and makes some people’s skin change color sometimes. As hard-hitting investigative journalists, we decided to try our best to uncover what else this city has been hiding over the years.

In order to do this, we began interviewing the locals, Humans of New York-style. First, we accosted a trio of youths at a local Starbucks about this very pressing issue. “What do you think about the fact that we only have 160 sunny days every year, while you have 284?” They simply looked at us through their Ray Bans and sipped their caramocha frappalattecciniatos in contempt. We decided that we were fighting a losing battle, so we made a hasty retreat.

We fled into a local eatery to avoid the prying eyes of the city’s youth, but little did we know that our journalistic journey was not over. Not by a long shot. The restaurant was called Buca di Beppo, which translates roughly to Joe’s Basement; literally to Giuseppe’s Hole. It was neither a basement nor a hole, since we had to ascend a maze of stairs and corridors in order to find our table. Before we even got our menus open, we were greeted by an overjoyed woman who offered to take our picture. She posed us in a variety of ways, then left for a while. When our waiter came around, he warned us that the portions were super large — “Family Size,” they called it. We had unwittingly stumbled onto another conspiracy. In order to investigate these tremendously large portions, we interviewed a nearby gaggle of women. I was unable to get a word in, since they were too invested in their discussion of the ocean, and how they lived so close that their lawns were basically pools, and how the air they woke up to was saltier than we were at hearing this. We never did get any of the answers we were looking for.

Griffith Observatory is a great place for some for spectacular views of the city. Pictured here is Jade Crockem (right) at the observation deck.

Overall, it was a fun time. We almost got kidnapped by Scientologists and pushed off a mountain, and we ate like the privileged youths we are. If I had to go back to L.A., it wouldn’t be against my will.

Jade:

As a native Texan and someone who’s spent their whole life in the South until recently, some things were a little bit less of a culture shock for me than for Josh. I’m used to warmer weather and in fact, California was a bit cooler than what I am used to in Texas for this time of the year. However, the weather seemed to be the only thing I was prepared for. There isn’t anywhere quite like Los Angeles. I had only been here once before, and both times I expected to walk off the plane and instantly see celebrities in front of me. I guess I’ll have to hold out hope for whenever I go back because it didn’t happen this time. I also expected to see the Hollywood sign as soon as I set foot out of the airport, which also didn’t happen. Disappointed with my lack of celebrity and sign sightings, I gathered my things as Josh and I left the airport.

We did a lot of exciting things in Los Angeles, one of which was explore the Universal City Walk, which is where we went to the place that not only stole my heart, but also nearly caused me to go bankrupt: the Los Angeles Sock Market. I had never seen such a place, but as someone who prides themselves on their sock collection, I felt like a higher power had led me there. I quickly realized at the register, however, why California is called the Golden State. It’s because you need a gold brick to afford anything in that state.

The most amazing thing I think we did while we were there was visit the Griffith Observatory. Upon arriving, another ton of bricks about the Hollywood sign was dropped on us.

Contrary to popular belief (and by popular I mean Josh and I) the Hollywood sign DOES NOT LIGHT UP. When it’s dark outside, it can’t even be seen if you aren’t really close. I figured something as iconic as the Hollywood sign would at least have one light on it, but alas, there were none. So with heavy hearts, we continued our trek up the hill until we reached Griffith Observatory. There is one thing about this place that is characteristically un-Californian: it’s free. Not a single dollar is required for admittance which makes the whole experience ten times better.

I expected to see amazing sights here, but what I didn’t expect was to run into a future celebrity. We met this little girl named Amy who is definitely going to be the next “it” girl in Los Angeles. Since this is California and everyone is an aspiring something, they all have agents. While Amy might have only been two, she already has an agent that she refers to as “dad” to keep things casual. It seemed like every part of the observatory we went to, we ran into Amy acting out of control and her agent trying to reason with her. I’m not sure what celebrity problem was fueling her meltdown, but her agent was not tolerating it. Josh and I were really honored to just be able to meet a little local celebrity, even if she had missed nap time.

Standing on top of that hill in that observatory, I had a realization. I finally understood why, despite how expensive it is and all the other chaos, people still flock there. Looking down on all the buildings that look like Lego bricks in the city where dreams are realized, it hit me that there’s one magical thing that pulls people here from all over the world. No matter where you’re from, there’s one thing that will inevitably pull you here, and that thing is ... In-N-Out Burger.

Joshua Brown | SciTech Editor
Jade Crockem | Operations Manager



Joshua Brown | SciTech Editor

Honduras: Humility and really great fruit.

Spring break is a time for students to relax and refresh midway through the semester. Some go home and spend time with family and some visit friends at other universities. Others follow in the footsteps of the millions of college kids before them and make the boozy, MTV-esque pilgrimage to the warm beaches of the south. We decided to forgo the rest and relaxation and spend Spring Break 2K16 digging trenches in the hot and humid town of Los Huatales, Honduras.

We’re going to be brutally honest. This was not a trip we were looking forward to. After sitting through several Global Water Brigades meetings and learning all about the holistic model that the organization utilizes to help communities by bringing them clean water, we wondered what the hell we had gotten ourselves into. We were about to be thrown into a culture we knew nothing about, with a language that we spoke little to none of, with a group we barely knew. The possibility of catching Zika was the least of our concerns.

It was 3:45 a.m. on the first Saturday of spring break. With our suitcases in one hand and all the optimism we could muster up in the other, we began our journey to Honduras. After traveling for almost fifteen hours, we finally reached the compound that we would be staying in. We were immediately welcomed in by the aromas of traditional Honduran food. We quickly realized that the food was going to be one of our favorite things about our trip, especially the fruit, which was always fresh and never once looked as sad as the fruit in Entropy. After dinner, we had time to settle into our rooms and prepare ourselves for the hard week of work that was ahead of us.

After an exhausting first day of traveling, our 7:30 a.m. alarms hit us pretty hard. We got up, ate breakfast with the rest of our group, and got ready to meet the members of the community that we would be working with. Arriving in Los Huatales, we were greeted by the Basic Sanitation Committee and the Water Council, both of which are comprised of community members who volunteered to serve as liaisons between Global Water Brigades and their fellow community members. They explained how people in

The long walk to the dig site, in smouldering heat and humidity, was made with enthusiasm and anticipation.



Photo courtesy of Keval Gala



Photo courtesy of Keval Gala

One of the many water tanks near the digging site that will save the community a kilometers long walk everyday once it is filled up with water after the trenches have been dug and the pipes have been laid.

their community walked several kilometers multiple times a day just to access water. Despite not having much, the people were still so optimistic and ready to work with us. We couldn’t leave a home without the occupants telling us that they hope God blesses us in everything we do. The optimism of the community members and their well wishes were enough to get us through digging a million trenches.

We woke up the next morning with the words of the community members echoing in our heads and a completely different outlook on the trip. We were as ready as we ever would be to begin digging trenches for water pipes. As we made our way out to the digging site, we immediately knew this would not be an even remotely easy task. It was a smoldering 91 degrees with high humidity. The sun was unrelenting. The ground was purely clay and rocks, and the digging was made all the more difficult because we were on the face of a steep mountain covered in thorny bushes. As a group of students who spend most of their time studying, you can safely assume that we didn’t have a lot of experience with manual labor. Needless to say, working on the trenches kicked our asses. As the first day winded down we looked around at our progress and knew we had a long way to go. Supplying clean water to an entire community is no easy job.

After a couple days of extremely hard labor, we attended a fair focused on teaching the children of the community about the water project. It is Global Brigade’s goal to make the communities sustainable, and educating the children plays a major role in the long term success of each of the projects. Following the educational fair, the community members and the students from the various attending universities performed together in a cultural exchange. Children from local schools performed songs and dances native to Honduras. We, as a varied group of Americans, had to rely on pop-culture dance crazes circa the early 2000s. Naturally, the “Cha Cha Slide” and “Cupid Shuffle” were already taken, so our group took it way back to 1995

with a classic — “Cotton Eye Joe.” The cultural exchange was the highlight of our trip, and not just because we got a break from pickaxing in the sun. We got to experience Honduran culture first hand with our group members who, over the course of this trip, became our close friends.

The last night of our trip was an emotional one, as we reflected on the previous week. Looking back on the beginning of this trip, it’s hard to believe that we were so hesitant in coming. In every sense of the world, our trip to Honduras with the Carnegie Mellon chapter of Global Water Brigades was amazing. We pickaxed a lot. We sweated a lot. But most importantly, we learned a lot. We learned so much more from the people of Honduras than they could’ve ever learned from us. It’s impossible to share all of what we’ve learned on our journey to Los Huatales, but some of the wisdom deserves to be shared.

We learned what it truly means to be grateful for something. There is so much in life that we take for granted. We complain about trivial issues when there are people all over the world without access to clean water. The trip really put that into perspective for us.

We learned that the barriers built up by cultural variations and language differences don’t stand a chance against the driving forces of kindness, generosity, and the pure joy of dancing and singing. We learned that giving your time to help others is one the greatest things one can do. One of our translators on the trip, Mario, left us with this quote: “Money is not the most important currency. The most important currency is time. Do not be stingy with your time.”

Oh, and we also learned that Honduras has way better fruit than America.

Jade Crockem | Operations Manager
India Price | Online Editor



House Of Cards returns with renewed focus

The political drama goes back to its roots for its fourth season and finally takes flight

Editor's note: The following article contains spoilers for Netflix's House of Cards seasons 1-4.

This was it. This is the season of creator Beau Willimon's *House of Cards* that sealed it into the hallowed halls of television history, one that proves that the show is not just an erratic phenomenon, but a slow, pulsing story that can shape the way that we think about politics. After season three, I was worried. The series was showy, dramatic, and over-the-top, and I was left wondering how much longer I could watch these people experience no consequences for their actions. The show had reached my limit, and I stopped believing in it.

But then, season four happened. Maybe it's because we're in the middle of an already outrageous election season. Maybe it's because the show has already been renewed for a fifth season. Whatever it is, something about season four made me feel like *House of Cards* was back with a vengeance. The show opens by refocusing on Lucas Goodwin, the spurned ex-journalist who is still in jail, but now working for the government. Bringing back a character who got lost in the shuffle of season three was a bold move, but it sets the tone for the season.

With characters like Lucas Goodwin, Zoe Barnes, Peter Russo, Tom Hammerschmidt, and Tom Yates coming back into play (albeit some in hallucinations), the series referenced its roots and came full circle thus adding a sense of closure. However, this season also added new characters that became central to both the plot and the development of the characters whom we had already met. In a brilliant addition, this season introduces Claire Underwood's mother, Ellen Burstyn's Elizabeth Hale. Their relationship reveals a more nuanced side of Claire Underwood's character, and provides us more background on the Underwoods' relationship than we have ever had before in the show.

Joel Kinnaman's Will Conway, the Republican candidate in the fictitious 2016 election, and his charming family are other additions to the show this season. As Frank Underwood preys on fellow Democratic hopeful and returning character Heather Dunbar, Conway presents another stark contrast to Frank, both in methodology and attitude.

Though season four has a more cohesive thread to the rest of the series, this season also has its share of shocking moments that keep true to the show's infamous reputation. From the near assassination of Frank Underwood, to Edward Meechum's death, to the open Democratic convention, the stakes continue to climb higher and higher. The beauty of this show, though, is that we as an audience are willing to sit and watch as the writing gently nudges the boundaries of believability, we buy into every plot line and allowing our anxiety to heighten.

The most beautiful moments of the show happen when we least expect them: Frank Underwood finding that Meechum's handprint he had drawn behind a painting has been covered up, Frank and Claire Underwood taking the stage after being nominated as presidential and vice presidential candidates respectively at the DNC, the determination of Hammerschmidt's quest to validate Goodwin's story and prove that Frank Underwood really did kill people, and perhaps most notable of all, Frank Underwood's threat to Catherine Durant.

In the most chilling moment of the show so far, Durant tries to stand up to Frank Underwood and seize the Democratic nomination for herself after finding out that Frank Underwood and Claire Underwood had stabbed her in the back. Frank Underwood jovially picks up a letter opener, tells Durant the whole story about killing Zoe and Peter, and that he'll kill her too. Then he laughs, tells her



Photo courtesy of Televisione Streaming via Flickr Creative Commons

House of Cards' two leads, Frank Underwood, played by Kevin Spacey, and Claire Underwood, played by Robin Wright, are pitted against each other this season.

he's kidding, and asks her to reconsider.

In that moment, I realized how powerful this show is. To capture the attention of an entire nation for thirteen hours so they can watch a pretend election while a real one is happening, is no small task, *House of Cards* does it with substance and style to spare.

Laura Scherb | Staffwriter

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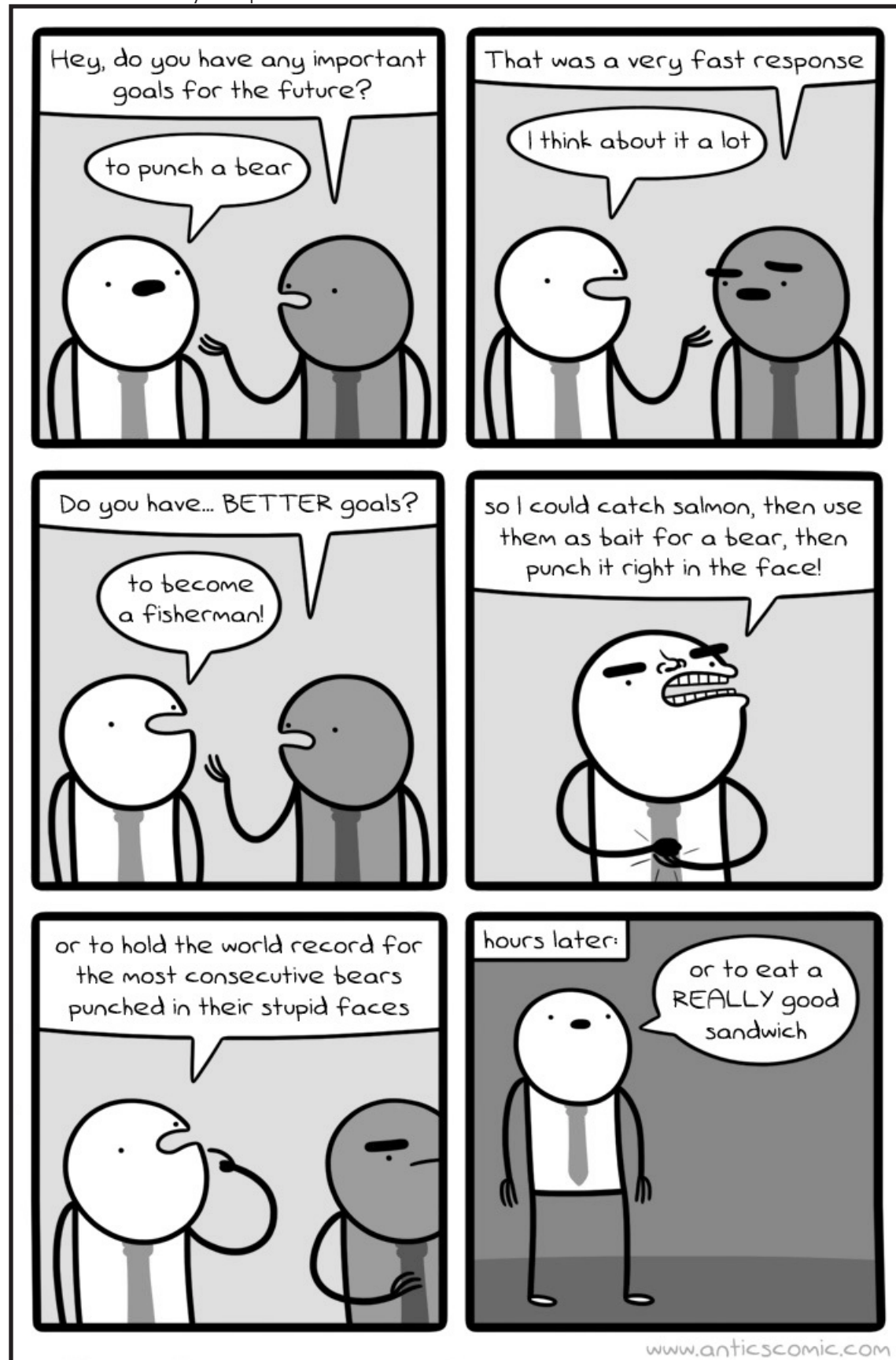
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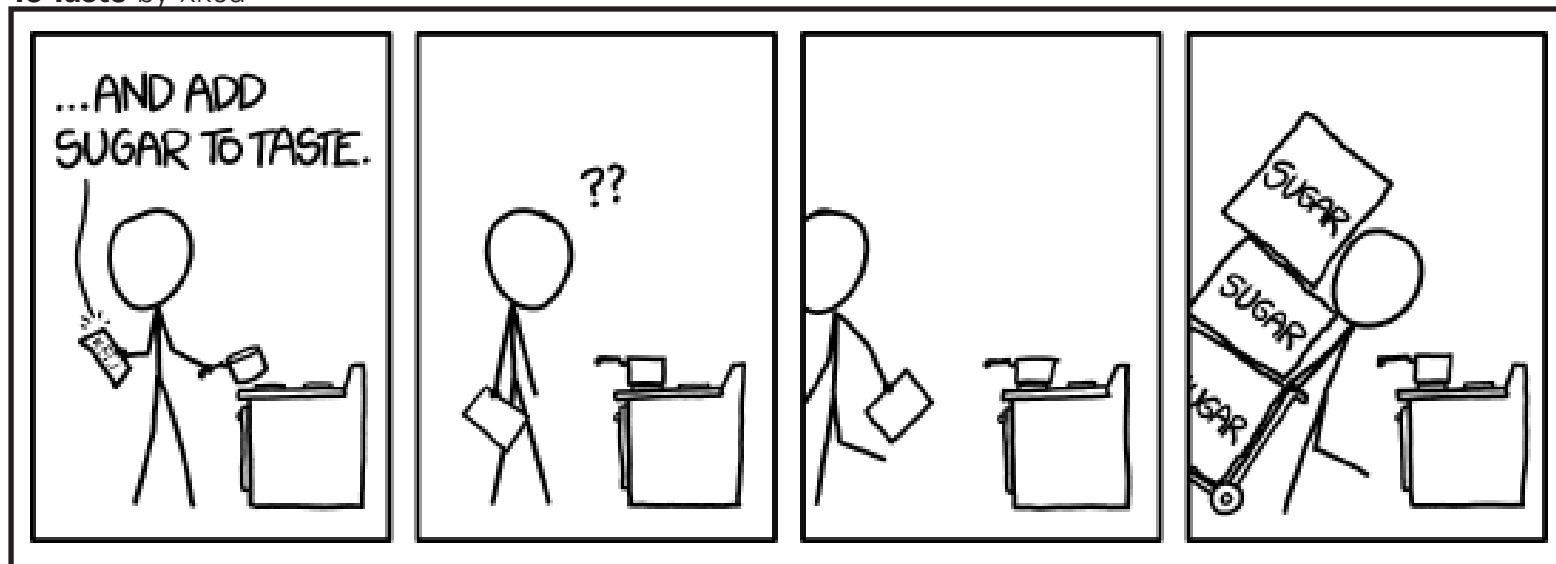




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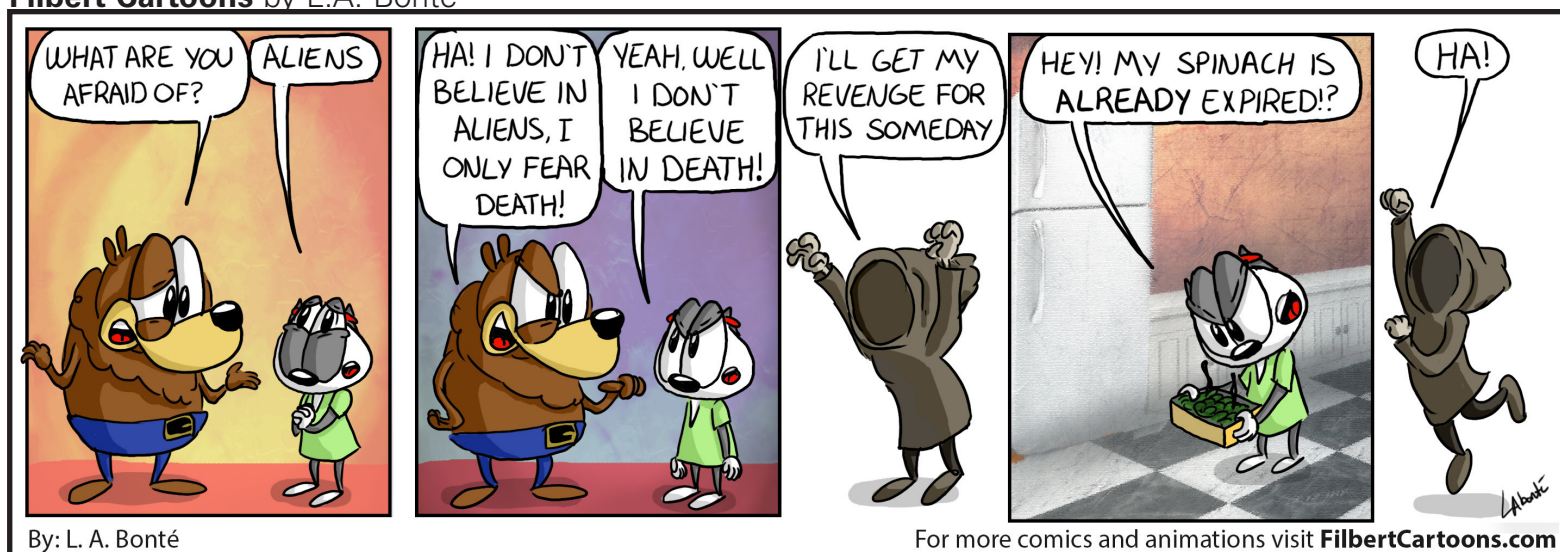
To Taste by xkcd



press@xkcd.com

xkcd.com

Filbert Cartoons by L.A. Bonte



By: L. A. Bonté

filbertcartoons@gmail.com

For more comics and animations visit **FilbertCartoons.com**

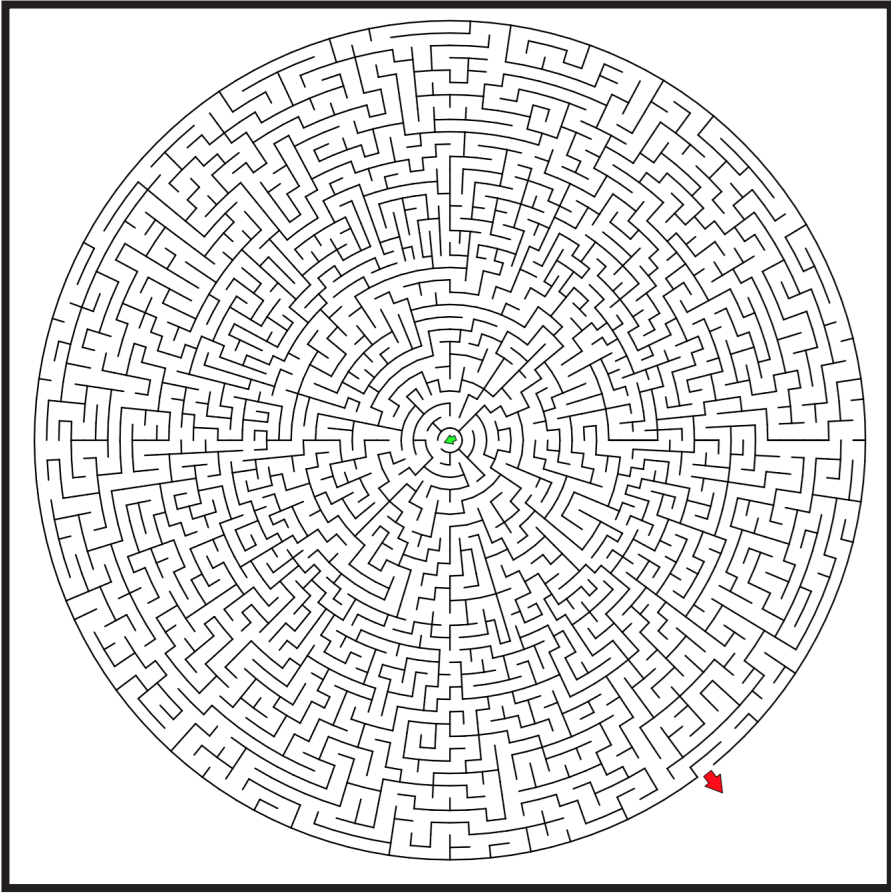
filbertcartoons.com

Sudoku Puzzle: Tough Difficulty

	6				9		7	5
5						3		9
		9		4				
			9					1
	5	8	1		2	9	3	
1					6			
				2		6		
6		5						7
3	8		6				5	

Sudoku courtesy of www.krazydad.com

Maze: Tough Difficulty



Maze courtesy of www.krazydad.com

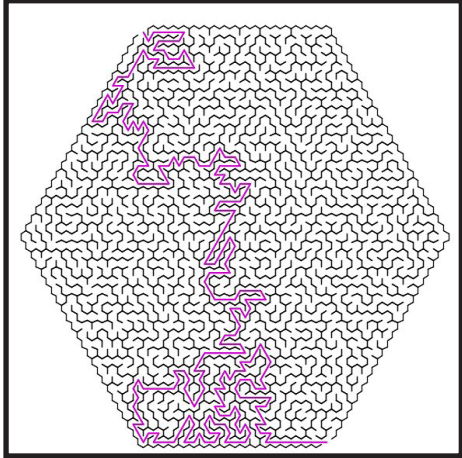
Solutions from Feb. 29

1	2	3	4	5	6	7	8	9	10	11	12	13
T	R	U	T	H		A	R	H	A	T	F	C
H	U	R	R	Y		C	O	A	C	H	L	O
O	M	N	I	P	O	T	E	N	C	E	A	R
			14	15	16							
			A	H	A		O	E	R		T	A
17	18	19	20	21	22	23	24	25	26	27	28	29
B	O	W	L	E	R	S		I	N	E	P	T
E	R	R		N	I	P	S		T	A	L	E
30	31	32	33	34	35	36	37	38	39	40	41	42
I	I	I		S	N	A	C	K	T	E	N	T
G	O	T	H		G	R	A	I	L	A	S	E
43	44	45	46	47	48	49	50	51	52	53	54	55
E	N	T	E	R		E	L	V	E	S	O	R
			56	57	58	59	60	61	62	63	64	65
S	U	N	S	P	O	T		P	A	G	E	U
66	67	68	69	70	71	72	73	74	75	76	77	78
S	U	N	S	P	O	T		S	U	M	P	T
79	80	81	82	83	84	85	86	87	88	89	90	91
O	L	D		T	O	E		M	I	L		
92	93	94	95	96	97	98	99	100	101	102	103	104
O	N	O		U	N	S	W	E	E	T	E	N
105	106	107	108	109	110	111	112	113	114	115	116	117
T	A	W		R	E	L	A	Y		E	B	O
118	119	120	121	122	123	124	125	126	127	128	129	130
H	E	N		E	R	A	S	E		S	E	N

Crossword

6	3	1	8	5	2	7	4	9
5	7	9	1	4	6	3	8	2
8	2	4	3	9	7	6	5	1
9	6	2	7	3	5	4	1	8
4	8	7	9	2	1	5	6	3
1	5	3	6	8	4	9	2	7
2	1	6	4	7	3	8	9	5
3	9	5	2	6	8	1	7	4
7	4	8	5	1	9	2	3	6

Sudoku



Maze

Horoscopes

These horoscopes will get your tail wagging!

aries

march 21–april 19

Chihuahua — spunky but protective, they are brimming with personality.

taurus

april 20–may 20

Labrador Retriever — good-natured and loving, they easily make friends with the people they meet.

gemini

may 21–june 21

Yorkshire Terrier — cute and lively, they are always fun to be around.

cancer

june 22–july 22

Basset Hound — pleasant and sociable, but can be stubborn and shy at times.

leo

july 23–aug. 22

Pomeranian — spirited and energized, they light up a room with their presence.

virgo

aug. 23–sept. 22

Shetland Sheepdog — kind and graceful, they are always ready to learn something new.

libra

sept. 23–oct. 22

Maltese — playful and clever, they get along well with the people around them.

scorpio

oct. 23–nov. 21

Doberman Pinscher — powerful and intelligent, they are filled with determination to achieve their goals.

sagittarius

nov. 22–dec. 21

Border Collie — versatile and passionate, they need an outlet for the substantial energy they possess.

capricorn

dec. 22–jan. 19

German Shepard — self-confident and loyal, they thrive on physically and mentally stimulating challenges.

aquarius

jan. 20–feb. 18

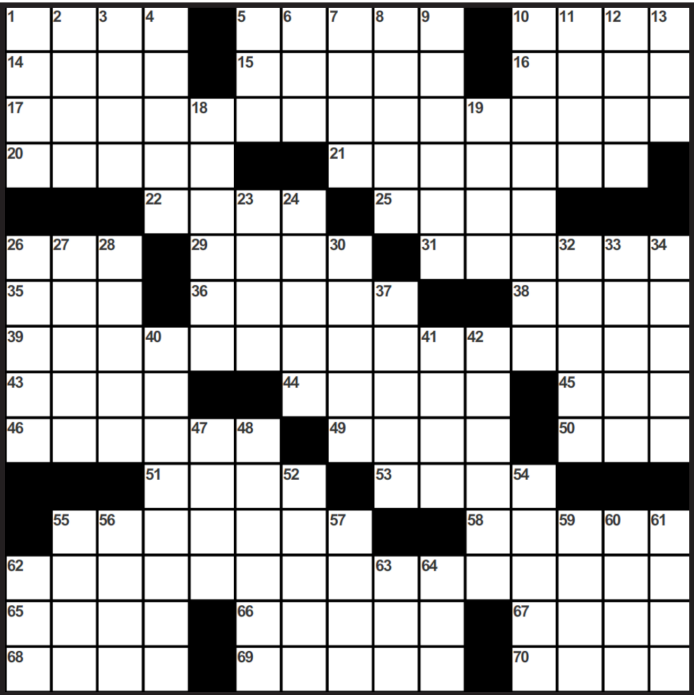
Poodle — elegant and friendly, they need care and nurturing to live up to their full potential.

pisces

feb. 19–march 20

Cocker Spaniel — sensitive and cheerful, they love affection from their companions.

Sarah Wang | Comics Editor



Crossword courtesy of [FreeDailyCrosswords .com](#)

ACROSS

- 1. Actor Guinness
- 5. Journalist Boothe Luce
- 10. Things to repent for
- 14. “Do you take me ____ fool?”
- 15. Gobi green
- 16. Bright brain concoction
- 17. Using more and more credit
- 20. Old-fashioned music hall
- 21. Eternal
- 22. Immature salamanders
- 25. Go to ____ (deteriorate)
- 26. Almanac feature
- 29. After the deadline
- 31. Worked hard
- 35. Altar avowal
- 36. Zinc ____
- 38. Like desert growth
- 39. Revealing
- 43. Nero’s robe
- 44. Artist’s plaster
- 45. Poem type
- 46. A tool for 55-Across
- 49. Ice Follies venue
- 50. Bird’s beak
- 51. Extremely deep sleep
- 53. And others, for short
- 55. The grim one and others
- 58. Short summary, for short
- 62. Promoting
- 65. Good bit of land
- 66. Acts of the Apostles?
- 67. Many household pets
- 68. “Use” homophone
- 69. Leave the flock
- 70. Leader in home entertainment?

DOWN

- 1. Bushy hair style
- 2. Clear’s partner
- 3. Coastal eagle
- 4. It’s due for a paddling
- 5. One in jail
- 6. Drop back
- 7. Largest continent
- 8. “The Lord of the ____”
- 9. Have great respect for
- 10. Fries, often
- 11. Caesar’s bad day
- 12. Bills on birds
- 13. Obeyed “Down in front!”
- 18. Receivables
- 19. Fake butter
- 23. Uber competitor
- 24. Emulate an angry bee
- 26. Some baseball gear
- 27. Committee type
- 28. Bess’ love
- 30. Lawn straightener
- 32. Disclose
- 33. Wear away
- 34. Star in Cygnus
- 37. Borden cow
- 40. Bran muffin alternatives
- 41. “____ It Romantic?”
- 42. Amusement park racing vehicle
- 47. Arizona Indian
- 48. Corrects text
- 52. In-group lingo
- 54. “Lifestyles of the Rich and Famous” host
- 55. “Con mucho dinero”
- 56. Beige shade
- 57. “Judge Judy” hopeful
- 59. “Bye bye”
- 60. Crafts partner
- 61. “Hey... over here”
- 62. Mary ____ Cosmetics
- 63. After-hours school grp.
- 64. Not outgoing



Student Government Debates.

Tues: McConomy Auditorium. 7 p.m.
Wed: Baker Hall 136A. 5 p.m.

Carnegie Mellon is slated to elect its Student Body President, Student Body Vice President, Vice President of Finance, and Vice President of Organizations in the coming weeks. Campaigns for these positions are already in full swing. With election season roaring into action, The Tartan is hosting this year's debates. The debate for Student Body President and Student Body Vice President promises to be a pointed discussion on issues that concern the Carnegie Mellon student community, including . In a similar vein, a debate for Vice President of Finance and Vice President of Organizations will be held on Wednesday, March 23, at 5 p.m. in Baker Hall 136A.

The Reel Story – Steve Jobs.

Carnegie Library of Pittsburgh. 12:15 p.m.
Catch the first screening of a feature documentary, about the life and revolutionary ideas of Steve Jobs.

Wednesday 3/23 and Thursday 3/24

Bob and Dave and Ren.

The Helen Wayne Rauh Studio Theater. 8 p.m.–10 p.m.

Bob and Dave and Ren, the School of Drama's newest production, is premised on a conversation between artists Robert Irwin and David Hockney with writer Laurence Wechsler as their moderator. The production is inspired by Wechsler's famous books — *Seeing is Forgetting the Name of the Thing One Sees* and *True to Life*. Through the theme of a romantic comedy, the three characters discuss the grand themes of art, love and life.

Gateway To India.

Cohon Center Wean Commons. 6 p.m.

Gateway To India promises to be a glimpse into the culture and traditions of a country famed for its vibrancy and color. Organized by Carnegie Mellon OM, the event is set to feature India-themed interactive activities, as well as free samples of cuisine from various regions of India.

Saturday 3/26

TEDxCMU 2016.

Rashid Auditorium. 1 p.m.–7 p.m.

Be a part of Carnegie Mellon's own independently organized TED event! This year's conference has the theme: $2 + 2 = 5$. As such, the conference is expected to focus on how the whole of something can be greater than the sum of its parts when parallel thinking and unique ideas are employed. Speakers for the event include Carnegie Mellon students and faculty, and guest speakers from around the country.

Ongoing

Old Allegheny County Jail Museum Tours.

440 Ross Street. 11:30 a.m.
Feb. 1–Oct. 31 (Every Monday)

When the former Allegheny County Jail was renovated to house the Family Division of the Court of Common Pleas, a portion of a historic cell block was preserved. The Allegheny County Jail is offering free tours of this cell block every Monday till the end of October. Admission to the tour is free of charge.

Classifieds

Brand new 2BR apartment in central Oakland for \$1,850 per month. Apartment has A/C, stainless steel appliances, washer/dryer in unit, spacious living room & bedrooms, heated bathroom floor, hardwood floors and more! Call 412.682.7622 or email sarah@robbrealestate.com for more info on this amazing apartment for FALL 2016.

VICTIM OF SEXUAL VIOLENCE? GILMARY HAS A CHRISTIAN RETREAT FOR YOU. VISIT GILMARYCENTER.ORG FOR DETAILS.



Self-Driving Car.

The Miller Gallery. 6 p.m.–8 p.m.
March 19–April 10, 2016.

The Miller Gallery's second major exhibit of the year, Self-Driving Car, is the final Master of Fine Arts Thesis Exhibition for artists Dan Allende, Zhiwan Cheung, Nima Dehghani, Ada-Scarlett Hopper, Jesse Kauppila, Tucker Marder, and Daniel Pillis. The exhibit, composed of installations and performances considered as experimental as they are opaque, is united by the notion that all these artists, having just completed their MFAs, are completely in control of their own lives — i.e. in self-driving mode going forward.

Compiled by **Abhishek Tayal** | Pillbox Editor

Want your event here?
Email calendar@thetartan.org.

Unleash your inner child

Write for Pillbox

pillbox@thetartan.org

polkadots: the cool kids musical.



Polkadots: The Cool Kids Musical had its world premiere on Monday, March 14 at the Philip Chosky Theatre. The production is based on an original song, "Sticks and Stones," which is about a young girl named Lily who uses positive thought to overcome school bullies. The production, about the character Lily Polka Dot, is about her experience as the first polk-a-dot in a school of squares.

