

THE TARTAN

Carnegie Mellon's student newspaper since 1906



thetartan.org
@thetartan
November 25, 2013
Volume 108, Issue 13

CMU campus coming to Brooklyn

NOËL UM
News Co-Editor

Carnegie Mellon is going to the Big Apple. By August 2015, the university will not only have campuses in Pittsburgh, Silicon Valley, and Qatar, but also in New York.

The school contracted with New York City, as well as Brooklyn-based production factory Steiner Studios, to create a new graduate school campus that melds technology with the arts. Carnegie Mellon's Brooklyn campus will give students the opportunity to obtain master's degrees in subjects such as game design, computational data science, and emerging media, according to the New York *Daily News*.

The program, entitled the Integrative Media Program, will cater to graduate students interested in pioneering the converging fields of arts, design, science, and the humanities. The Integrative Media Program is one of a kind; as "the first Applied Sciences project to integrate rigorous academics seamlessly into a specialized commercial working environment," according to a university press release, the program seeks to contribute to the future of technology in urban environments.

"We believe New York City will be the perfect setting for CMU to provide education in these technology-based modes of expression and production — social media, games, special effects, responsive environments, product design and manufacturing — just to name a few of the areas where we will be working together," said Provost and Executive Vice President Mark Kamlet in the university press release.

"CMU is recognized worldwide for its computer science and engineering programs, but I don't know if many people are aware of how strong its fine arts program is as well," said senior design major Joe Oak. "As the cultural hub, New York will be a great place to strengthen the university's involvement in the arts as well as increase awareness among the creative community."

New York Mayor Michael Bloomberg made the announcement at

See **BROOKLYN**, A3

David Tepper donates \$67 million

BRIAN TRIMBOLI
News Co-Editor

David A. Tepper's charitable foundation recently gave Carnegie Mellon \$67 million, the university's largest-ever donation from a Carnegie Mellon graduate and the largest gift for a building project.

The university will use Tepper's most recent donation to build the new Tepper Quadrangle, which will be located on the north side of campus, where the Morewood Parking lot currently exists. Tepper's previous donation of \$55 million in 2003 changed the name of the Graduate School of Industrial Administration to the Tepper School of Business.

According to the official university

press release, the four-and-a-half-acre Tepper Quadrangle "will be designed to facilitate high levels of cross-campus collaboration and bring together interdisciplinary initiatives, including entrepreneurship and technology-enhanced learning."

The university's initial investment for the Tepper Quadrangle currently stands at \$201 million. The first building on the Tepper Quadrangle will house the Tepper School of Business. Students in the school of business are excited by the prospect of the new space.

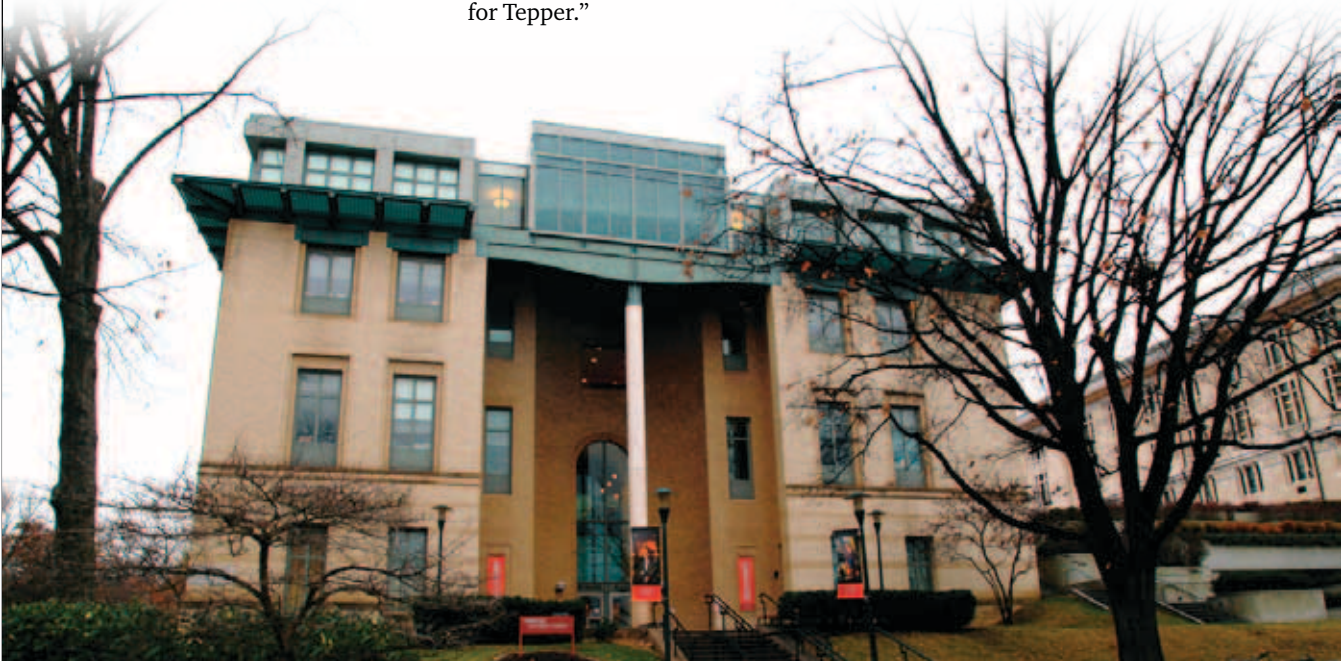
"I think that it's a great way for Tepper to expand, and keep up its reputation as a highly ranked business school," said Elissa Maercklein, a sophomore business administration student. "The new space will be good for Tepper."

Some students are concerned that the new business school building planned for the Tepper Quadrangle is superfluous. "I don't know why Tepper needs a new building," said Rachel Fowler, another sophomore business administration major. "Although it will be nice to get a new building."

Either way, the establishment of the new building is far in the future. Dean of the Tepper School of Business Robert M. Dammon said that the construction will not break ground until the summer or fall of 2015, and will not be completed until "optimistically the fall of 2017, more likely 2018."

The university is currently searching for an architectural firm to design the building; they have contacted over

See **TEPPER**, A3



Michelle Wan/Staff Photographer

Prescott kicks off Tepper lecture series



Courtesy of Forum PA

BRENT HEARD
Senior Staffwriter

CHRIS GALVIN
Staffwriter

Nobel-prize-winning economist and Carnegie Mellon alumnus Edward C. Prescott gave the inaugural Tepper Lecture this past Friday.

The new Tepper Lecture series features distinguished Ph.D. alumni of the Graduate School of Industrial Administration (GSIA) — what is now known as the Tepper School of Business — who were invited back to Carnegie Mellon to address the community on their area of expertise.

Prescott earned his Ph.D.

in economics from Carnegie Mellon in 1967 and later served as a faculty member from 1971 to 1980.

Throughout his career, Prescott also taught at the University of Pennsylvania, the University of Minnesota, the University of Chicago, and Northwestern University, among other schools.

Prescott is currently the W.P. Carey Chair in the department of economics at Arizona State University as well as a senior monetary adviser at the Federal Reserve Bank of Minneapolis. Prescott received the Nobel Memorial Prize in Economics in 2004 with Finn E. Kyland for their contributions to dynamic macroeconomics: the time consistency of economic policy and the driving forces behind business cycles. Kyland and Prescott ondacted most of this pioneering research while they were affiliated with Carnegie Mellon.

Upon the announcement of the Nobel Prize, former University President Jared Cohon said in a university press release, "I am delighted to congratulate Finn and our alumnus and former faculty

member Ed Prescott on behalf of the university. They continue a long tradition of path-breaking research in economics at Carnegie Mellon."

Their papers discussed economic problems surrounding time-inconsistent policies — which cause attempts to stimulate the economy to damage it instead — and the effects of supply-side factors such as technological progress and resource shocks on business cycles. Prescott also hosted a roundtable discussion, which was attended by undergraduate economics students and focused on Prescott's experiences in economic research. He also touched on different theories surrounding current macroeconomic events.

In August 2012 Prescott was ranked as the 19th most influential economist in the world by the Research Papers in Economics project, based on his academic contributions.

According to a University of Pennsylvania press release, Prescott said, "I love creating models and coming up with

See **PRESCOTT**, A3

CMU alumni create EnFind to help online consumers

LILAH BUCHANAN
Junior Staffwriter

The Language Technologies Institute has recently produced several alumni who have implemented natural language processing and machine learning applications that benefit both online content providers and consumers.

Language technologies doctoral candidates Richard Wang and Frank Lin, along with alumni Tarik Raed (SCS '11), and Brad Barbin (TSB '11) have launched EnFind, which is powered by technology developed at the Language Technologies Institute. According to Barbin, EnFind is a search engine committed to "making the Web a better

place."

EnFind, Raed explains, "provides readers with an opportunity to learn, view related articles, and make purchases — all from one article ... and all completely free."

While perusing the Internet, many consumers are easily sidetracked by curiosities that a particular article inspires. Users may leave a given site to investigate these interests and make purchases elsewhere — purchases motivated by the original article. Because of this tendency, content providers are losing out on revenue and consumers are subject to a more sporadic and directionless user experience.

EnFind aims to solve this problem, for both the content

provider and consumer. Raed explained, "A content provider wants their reader to be engaged in an article — but ultimately monetizes the engagement through recirculation and should look to optimize this."

Defined by its founders as a "search engine with no web crawler," EnFind allows readers to enjoy the information of the Internet without ever leaving the article of initial interest. In order to properly credit initial sites, EnFind places an ID on the consumer so that initial sites can receive "affiliate credit" for future purchases.

So far, EnFind has seen tremendous success. Current data shows a 2 percent increase in articles read by



Courtesy of Richard Wang

consumers and 25 percent increase in advertisements viewed. EnFind's technology has recently been implemented in a trial run for the sports section of the *Pittsburgh Post-Gazette*. After the successful trial, Raed and Barbin expect EnFind to be implemented across the *Post-Gazette's* site by the end of the year.

In light of their recent suc-

cesses, Raed and Barbin reflect on their formative experiences at Carnegie Mellon. Both are thankful for the inspiring stories of alumni and the opportunities to work with Ph.D. students during their time as undergraduates. In the same vein, Raed and Barbin encourage undergraduates to chase their own unique entrepreneurial visions.

Simon Initiative targets research

ALVIN MATHEW
Staffwriter

Carnegie Mellon University recently announced the inception of the Simon Initiative, a campus-wide push for interdisciplinary research collaboration and technology-aided learning initiatives.

The Simon Initiative is named after the late professor Herbert Simon, known for his work in cognitive psychology and computer science, and related applications in education.

The Simon Initiative is complemented by a new seed-funding program at the university that will open up opportunities for expansion of education initiatives. According to an official email from President Subra Suresh, "The Simon Initiative will also coordinate campus-wide activities with the Eberly Center for Teaching Excellence and Educational Innovation, the Science of Learning Center jointly administered with the University of Pittsburgh and funded by the National Science Foundation, the Carnegie Mellon Open Learning Initiative activities, and other organizations on campus to connect research on learning with CMU courses and the on-campus experiences of students and faculty."

The program looks and hopes to combine research, technology, and entrepreneurship within the university, and hopes to unite the university's technological and educational worlds to help better understand human learning. The initiative will also ensure that high quantities of research data will be stored so that different institutions can utilize them.

The university plans to create the Global Learning Council (GLC), comprised of industrial and academic leaders, which will share data among various institutions and groups to help create a better environment. The official website for the Simon Initiative states that "a data bank consortia will collect and store thousands of high-quality data sets, accumulate the best analytic methods available, and create a large research community enabled to improve education through empirical research."

"This council and the Simon Initiative arrive at a critical time for educators," President Suresh said in the official university press release. "The world is experiencing an educational revolution, but there has not been sufficient effort to date to address the fundamental question: Are students using these technology platforms really learning successfully? Carnegie Mellon has been studying how people learn with technology since the 1950s; working together with our council colleagues, our goal is to create guidelines and best practices that ensure academic rigor and successful learning for students worldwide."

The program has received praise from educa-

See **SIMON**, A3

FEATURE PHOTO

Culture Night held in University Center



The Taiwanese Student Association hosted its annual Culture Night in the University Center's Rangos Hall on Friday. The event featured student performances and cultural food. The theme of this year's Culture Night was "Mafia."

Campus Crime & Incident Reports

Vehicle Stop/Theft of Chair

Nov. 16, 2013

A University Police officer stopped a vehicle for a traffic violation on Forbes Avenue. While speaking with the driver, the officer noticed a chair in the back of the pickup truck. The officer confirmed that the chair was removed from the cafeteria area in Posner Hall. The driver was given a Carnegie Mellon internal discipline citation for theft of university property. University Police took custody of the chair and will return it to Posner Hall.

Defiant Trespass Notice

Nov. 16, 2013

University Police made contact with a suspicious male outside of the Hunt Library. A

Hunt Library desk attendant summoned the University Police after the male and two others were seen walking around the Hunt Library. University Police spoke with one of the men and issued him a defiant trespass notice for frequenting Carnegie Mellon's leased or owned property. The University Police have positively identified the other two suspicious males that were in the library, and all officers will be on the lookout for the three men.

Underage Drinking Party

Nov. 17, 2013

University Police were summoned to the third floor of Hamerschlag House due to a loud party. Officers discovered several open containers of alcohol inside the room where the party was held. The

University Police ordered the occupants of the room to disperse and all of the alcoholic beverages were disposed of. Two students were cited with internal discipline citations for underage drinking.

On the same night, University Police were summoned to the Skibo Café after a report of a male student spitting on the floor of the café. Officers made contact with the intoxicated student, who was taken to his residence by police and cited for underage drinking.

Vehicle Damage

Nov. 18, 2013

University Police assisted the Pittsburgh Bureau of Police with gathering information about several vehicles that were damaged by fallen tree limbs on Frew Street. The vehicles were legally parked

on Frew Street when several large branches fell on the cars and caused extensive damage to them.

Odor of Marijuana

Nov. 19, 2013

University Police were called to the first floor of the Donner House to investigate an odor of marijuana. Officers met with the occupants of the suspected room, at which time the room's occupants admitted to smoking marijuana. All illegal contraband was confiscated and one student was cited for disorderly conduct.

NEWS IN BRIEF

HCI researchers suggest methods to optimize classroom learning

Researchers from Carnegie Mellon University and Temple University recently searched for the best strategies for educating teachers, discovering that finding the best way to teach can be extraordinarily difficult, as there are over 205 trillion potential options available for professors as they form a curriculum.

Ken Koedinger, professor of human-computer interaction at Carnegie Mellon, said "There are not just two ways to teach, as our education debates often seem to indicate.... There are trillions of possible ways to teach."

According to a university press release, "In the Nov. 22 issue of *Science* the researchers break down exactly how complicated improving education really is when considering the combination of different dimensions — spacing of practice, studying examples or practicing procedures, to name a few — with variations in ideal dosage and in student needs as they learn."

The researchers then fo-

cused mainly on conclusive approaches that they feel are vital to classroom learning. In order to simplify the complexity of this matter and to help improve educational methods, researchers offered five different suggestions.

Firstly, "Research should focus on how different forms of instruction meet different functional needs," implementing more experiments "to determine how different instructional techniques enhance different learning functions."

Researchers also suggested "[taking] advantage of educational technology to further understand how people learn and which instructional dimensions can or cannot be treated independently by conducting massive online studies," building "a national data infrastructure in which data are collected at a moment-by-moment basis," and developing "more permanent school and research partnerships to facilitate interaction between education, administration, and researchers."

Shared information on social networks can lead to hiring discrimination

Alessandro Acquisti, associate professor of information and public policy at Heinz College, and Christina Fong, a senior research student at Dietrich College, headed a research team that found that hiring discrimination can result from employees sharing information on social networks.

Although surveys have suggested that some employers use social networks to screen candidates, until now there have been no controlled experiments that study how often firms look at prospective employees' online profiles, and how much those profiles affect candidates' chances.

The researchers found that a minority of American employers consistently refer to online searches for candidates. According to Fong, "While it appears that a relatively small portion of U.S. employers regularly search for candidates online, we found robust evidence of discrimination among certain types of employers."

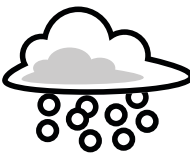
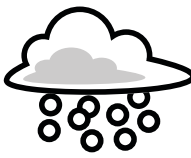
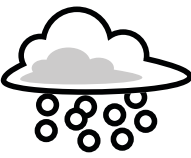



According to a university press release, "Acquisti and Fong used data revealed online by actual members of popular social networking and job-seeking sites to de-

sign job candidate résumés and online profiles for their experiments. They experimentally manipulated personal traits the candidates revealed online regarding religion and sexual orientation, while holding signs of professionalism and work ethic constant." They used more than 1,000 individuals on the Web to test reactions to their profiles and résumés. The two researchers also submitted applications for subjects to over 4,000 employers, which helped them collect data and investigate how many employers looked online for candidates.

The researchers stressed their findings should be seen as correlated — not causal — because they could not randomly assign religious values and traits in different areas. Nonetheless, Acquisti said, "Employers' use of online social networking sites to research job candidates raises a variety of notable implications, since a vast number of job candidates reveal personal information on these sites that U.S. employers can't ask in an interview or infer from a résumé."

Compiled by
ALVIN MATHEW

WEATHER

 TUESDAY High / Low 35 / 30	 WEDNESDAY High / Low 33 / 21	 THURSDAY High / Low 28 / 18
 FRIDAY High / Low 35 / 21	 SATURDAY High / Low 37 / 24	 SUNDAY High / Low 38 / 27

Source: www.weather.com

STUDENT SENATE MEETING MINUTES

Points of Discussion

The Campus Life Committee is considering putting a holiday tree up in the University Center. The proposal raised concerns during the meeting that a holiday tree could be construed as religious bias. Although the tree would not be specifically a Christmas tree, some Senators argued that a holiday tree is inherently biased toward the Christmas holiday. The Campus Life committee is considering the issue

and possible alternatives. Student Senate discussed the possibility of having college-specific events to foster community involvement in student government. The idea drew trepidation from Senators after last year's unsuccessful college-specific town hall events. Senators suggested partnering with academic Student Advisory Councils to organize the events. Senate also discussed com-

munication between committees. Some Senators feel that separate committees are too closed, and need to present committee reports more often. Other Senators thought that constant committee updates would be excessive.

Ex Officio Report: Summer Studies

Maureen Meyer, a Summer Studies student assistant and junior professional writing major, spoke on behalf of the Summer Studies program. According to Meyer, Summer Studies wants to form a student committee to give feedback and ideas about the summer experience at Carnegie Mellon.

Committee Report: Campus Life

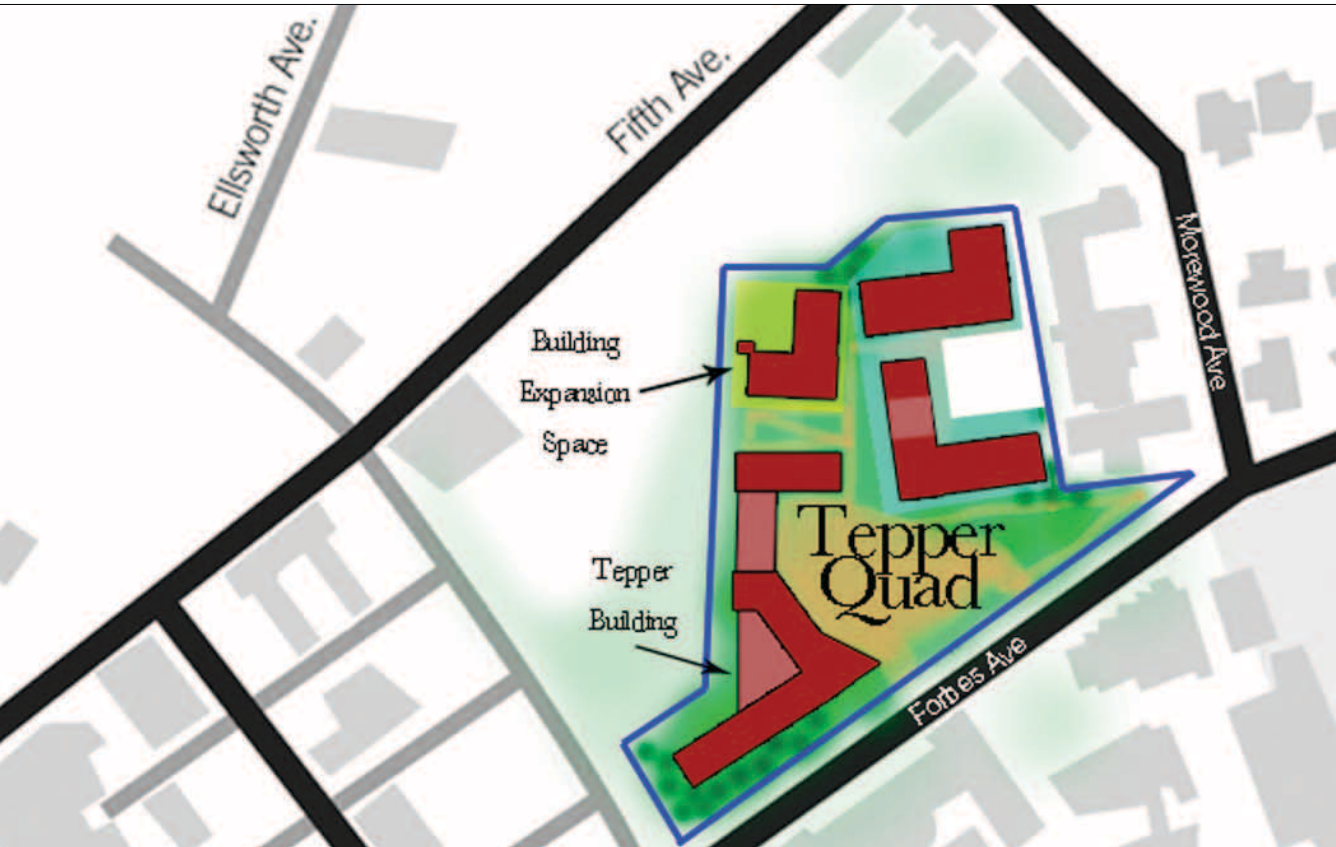
The Gallery Crawl was held this Saturday, from 11 a.m. to 5 p.m. The Campus Life Committee has printed and framed the Spring 2013 Dean's List; they will hang it publicly in the University Center soon. The committee also mentioned the potential of putting up a holiday tree or other decorations in the University Center.

Committee Report: Internal Development

Members of the Executive Committee were pleased with the Senators' feedback from the survey sent out by the Internal Development Committee two weeks ago. The survey measured how Senators felt about the Executive Committee and the direction that Senate is going.

Compiled by
BRIAN TRIMBOLI

University to construct Tepper Quadrangle



Kelsey Scott/Operations Manager

TEPPER, from A1

20 firms and are planning to narrow the candidates down in the spring semester. After an architect is selected, it will take between a year and 18 months to finalize a design for the building. The building will hold more than Posner Hall currently does — included in the potential designs for the building are a new fitness and recreation space, a dining location, an auditorium, and a welcome center for prospective students and parents.

President Suresh wants the new auditorium to be the largest on campus, according to Dammon.

The building will also house campus-wide centers for entrepreneurship and collaboration, such as the new Center for Innovation and Entrepreneurship, formed from a marriage of the School of Business's Donald H. Jones Center for Entrepreneurship and the School of Computer Science's Project Olympus.

The added fitness space coincides with the university's planned expansion of the University Center, which will gain new exercise areas. According to Dammon, Tepper stipulated that the new building contain a fitness center. "That was one of the things that Tepper was very concerned about, the lack of good fitness facilities here on campus," Dammon said. "So he insisted that if he's going to give us \$67 million, we have to set aside at least 12,000 square feet in the new building for fitness."

Dammon emphasized that none of these plans is concrete yet. "Since we haven't really gotten into design yet, there may be some things we envisioned having in the building that we won't have space for; we may have to move things around a bit. But the plan is for it to be 295,000 square feet."

The construction of the Tepper Quadrangle also raises several concerns, since the Quadrangle will reduce parking in the Morewood parking lot as well as relocate Spring

Quadrangle and busing students from a parking location slightly further away.

Dammon also raised the concern of the current difficulty of crossing Forbes

Avenue. They have to do it in consultation with the city, obviously — we can't just do whatever we want."

Spring Carnival, Dammon said, will still be in the Morewood parking lot for — tentatively — the next two years. Although a final location for Carnival has not yet been decided, Dammon theorizes that it will be in the College of Fine Arts parking lot and on Tech, Frew, and Margaret Morrison streets.

After the construction of the Tepper Quadrangle and the new business building, the building that currently houses the Tepper School of Business will be reallocated for other university departments.

Dammon also emphasized that the new building is not just for Tepper. "People should understand that it's not just for the Tepper School — there is going to be significant amount of university-wide space. We want it to be very collaborative; we want it to be inviting to the whole campus. So the Tepper School will be there, sure, but there'll be lots of other things for the university in that space as well."

The building will hold more than the school of business — included in the potential designs for the building are a new fitness and recreation space, a dining location, an auditorium, and a welcome center for prospective students and parents.

Carnival.

"There will be some parking under the building," Dammon said. "Not enough to make up for everything that's going to be lost. They are working to find alternatives for parking, but they have not decided exactly what to do yet."

Dammon mentioned several alternatives for parking, including a new parking garage adjacent to the Tepper

Avenue, noting that the construction of the Tepper Quadrangle is part of a larger university initiative to expand the Forbes Avenue area. "They are finding ways of what they call 'taming' Forbes, making sure that the traffic is slower, synchronizing the lights so that the cars can get through and then there's a stoppage so people can get across," Dammon said. "The university is well aware that they have to



Michelle Wan/Staff Photographer

The Tepper Quadrangle will be located where the Morewood parking lot currently stands.

CMU announces Simon Initiative

SIMON, from A1

tion experts. "Providing a platform that can attract world-class talent and significant public and private resources is a critical step forward," said U.S. Secretary of Education Arne Duncan in a university press release.

"Efforts like this new one from Carnegie Mellon will advance this vital conversation."

Since the 1950s, Carnegie Mellon has been at the vanguard of the movement to figure out how people are able to learn. Studies have shown that such practices by universities are more effective than the traditional practices used by many schools. The GLC is already attract-

ing tremendous support, and organizations such as Microsoft are showing preliminary interest. Carnegie Mellon students want to learn more about the initiative. Hanson Zeng, a first-year information systems major, said, "I think the Simon Initiative idea seems great, but getting big names into one organization may have a façade of real accomplishment. But until there is action and outcome I can't really say it's effective, considering CMU has been in the forefront of tech learning since 1950."

The Simon Initiative promises advances in technology-centered learning through the GLC and a new source of funding for research and innovation.

Brooklyn welcomes new CMU campus



Brian Trimboli/News Co-Editor

BROOKLYN, from A1

the Brooklyn Navy Yard last Wednesday. "Carnegie Mellon is one of the great educational institutions in the country and it just adds to the overall intellectual capital of the city," Bloomberg said during his speech. "Smart people want to be with smart people — they feed on each other, they develop with each other."

The creation of the Brooklyn campus was made possible by Carnegie Mellon's winnings in the Applied Sciences NYC competition, which awarded the school \$100 million and \$300 million in New York City real estate. The program will open in Steiner Studios' seven-story building at 25 Washington Ave., following a \$65 million renovation.

Sophomore mechanical engineering major and New York native Taisha Vargas said, "I think it's fantastic that CMU is reaching out to the Big Apple. We need to

have more of a national presence, and why not start in the capital of the world? CMU would be surrounded by several other well-respected universities, and the opportunity to present CMU as a university that promotes cultural diversity through this program is groundbreaking."

"We're very strong in drama and the arts, so we have a huge alumni base that's here and we're always involved in activities here," Kamlet said in an interview with *The New York Times*.

"But in terms of yet additional plans in New York, that might be great but there's not others that are concrete at this point."

The Integrative Media Program will offer courses through the College of Fine Arts, the School of Computer Science, the College of Engineering, and the Tepper School of Business. The school plans to have 50 students each year — 40 matriculated students and 10 visiting students.

Prescott lectures on economic stability



Courtesy of Forum PA

PRESCOTT, from A1

explicit structures I can play with," adding, "Economists create their own worlds. We're like little gods with our artificial economics, wanting to see what happens."

Prescott's lecture focused on his recent research with fellow monetary adviser at the Federal Reserve Bank of Minneapolis, Ellen R. McGrattan.

Their report, titled "On Financing Retirement with an Aging Population," addressed the problem of financing retirement consump-

tion in the United States as the population ages and the number of workers per retiree drops. Prescott outlined his and McGrattan's proposal to "move from current U.S. retirement system — which relies heavily on payroll taxes to make lump-sum transfers to retirees — to a saving-for-retirement system that eliminates these payroll taxes and old-age transfers."

To learn more about Prescott and McGrattan's research on the U.S. economics and the retirement system, visit <http://www.minneapolisfed.org/research>

Write for News!

Email: news@thetartan.org

Science & Technology

HOW THINGS WORK

Organic reactions are behind the process of cooking

BRIAN TRIMBOLI
News Co-Editor

Whether it is a crispy piece of bacon or an apple pie, every piece of cooked food you eat has been transformed by a varied and complex series of chemical reactions.

When a piece of meat hits a hot pan or bread rises in the oven, a chemical reaction involving an amino acid and a sugar gives it the browned appearance that lets us know that it's cooked. This reaction, called the Maillard reaction, doesn't just make food look cooked — it's also responsible for the flavor and aroma of cooked food.

The Maillard reaction is named after the French chemist Louis Camille Maillard, who first discussed the essence of the reaction in his 1912 paper. The reaction wasn't described in detail, however, until a 1953 paper was published by John Hodge, a chemist working for the U.S. Department of Agriculture. Even today, the complex reaction isn't fully understood because of the many variables and possible outcomes.

The marriage of high heat, amino acids, and sugar is responsible for the Maillard reaction. Although it doesn't seem as if foods such as bread or meat would have sugar in them, even the most savory foods have these naturally occurring carbohydrates.

Since the Maillard reaction is so all-encompassing, the mechanisms behind it are multiplex. In the first stage of

the reaction, a reducing sugar, such as glucose, condenses with a compound that contains a free amino group, and a chain of amino acids that make up a protein. From there, the sugar-amino acid reaction forms the Amadori rearrangement product, the beginning of a series of more complicated organic reactions.

The Amadori product reacts in different ways to produce different scents and flavors, mostly dependent on how acidic the system is. The Maillard reaction is notoriously complex and difficult to control; it does, after all, result in most of the flavors and scents people see and smell in cooked foods.

While the Maillard reaction affects a wide variety of foods, it is not the only browning process. Caramelization is the browning of sugar, seen commonly in roasted marshmallows, crème brûlée, and, of course, caramel.

Caramelization is a considerably simpler reaction than the Maillard reaction, since it involves just heat and sugar. Although caramelization occurs at different temperatures depending on the type of sugar, it generally happens at around 338°F.

Caramelization is an example of pyrolysis, a decomposition of organic compounds at high heats. Caramelization, like the Maillard reaction, is a non-enzymatic browning process.

In the first step of caramelization, water evaporates from the sugar. Next, the sug-

ar starts to break down into smaller compounds. Sucrose, for example — also known as table sugar — breaks down into glucose and fructose. From here, like in the Maillard reaction, there's a condensation process. During this step, the individual sugar compounds react with one another to form hundreds of complicated aromatic compounds. These compounds are what give caramelized foods their signature sweet and nutty taste.

Caramelization can produce a wide range of flavorful compounds. Diacetyl, for example, gives food a butterscotch-like taste. Other compounds produced by caramelization include furans, which have a nutty flavor; esters, which have a rum-like flavor; and maltol, which has a toasty flavor.

As anyone who has accidentally burned sugar knows, caramelization can easily go too far. If sugar is left to caramelize too long, the process will break down the original sugar to the point where it becomes blackened and bitter. This is a result of the oxidation of the sugar.

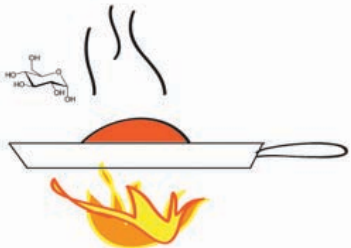
Sugar, a carbohydrate, is made up of rings of carbon atoms, along with hydrogen and oxygen. After sugar is oxidized so much that we consider it burnt, what's left over is mostly carbon. Blackened, burned sugar is akin to briquettes on the grill or to chimney soot, both of which are made up of mostly burnt carbon compounds.

Although food is simple to eat, the chemical processes behind producing the flavors and aromas we know and love are

actually very complex and — to this day — not completely understood. As researchers learn more about the Maillard

reaction and caramelization, it can lead to new ways to manipulate how processed foods look and taste.

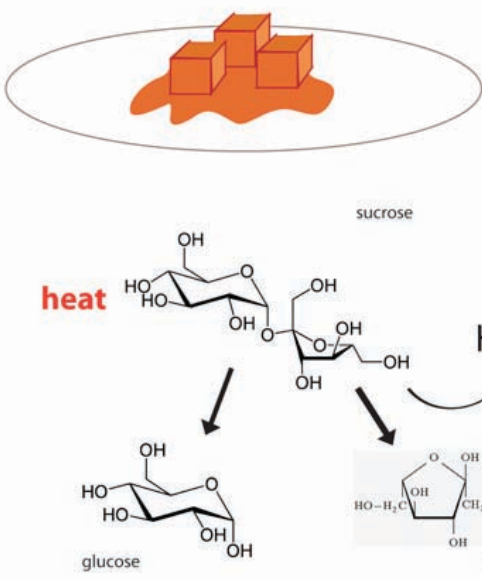
Chemical breakdowns in the cooking process



Maillard reaction

The Maillard reaction is very complex. It begins with a reducing sugar, such as glucose, that condenses with a compound that contains a free amine group.

From there, the sugar-amino acid reaction forms the Amadori rearrangement, which can lead to more complicated organic reactions.



Caramelization

With heat, table sugar (sucrose) can be broken down into glucose and fructose.

From there, multiple sugary compounds can be formed, each with a distinct aroma and flavor.

Michael Setzer/SciTech Editor

Computer program NEIL runs 24/7 to create visual database

MICHAEL SETZER
SciTech Editor

Though common sense can sometimes seem rare in the human population, it is almost never associated with computers. Carnegie Mellon researchers, however, are currently implementing a program that allows a computer to label images and acquire common sense almost entirely on its own. The program, called the Never Ending Image Learner (NEIL) runs constantly on Carnegie Mellon's campus and analyzes thousands of images daily. The researchers aim to create the world's largest visual database and ultimately improve computer vision.

The research team is led by Abhinav Gupta, an assistant research professor in the department of robotics, and includes Xinlei Chen, a Ph.D. student in Carnegie Mellon's Language Technologies Institute, and Abhinav Shrivastava, a Ph.D. student in robotics.

Their work builds upon already existing programs that gather a visual knowledge base, such as ImageNet and Visipedia. The issue with these programs, the researchers explain, is that they simply rely too much on human instruction to cover the vast amount of visual data available on the Internet. The fact that NEIL can operate largely on its own makes the process of building visual knowledge bases much more feasible.

Having a computer learn visually is far superior to hav-

ing it learn from text alone. For example, purely analyzing text references might create incorrect assumptions about objects that would be obvious to people who can see. In this way, NEIL learns in a similar fashion to humans. Babies make visual connections long before they have the ability to read; NEIL works off of the same basic principle.

Since the project began in July, NEIL has analyzed over 5 million pictures. NEIL is able to make the common sense connections by looking through all of these images. For example, after looking through thousands of pictures of wheels and cars, NEIL can make the connection in its own language that "Car" can have a part called a "Wheel." The program has managed to make over 3,000 of these connections and categorized approximately 500,000 objects.

The technical approach behind NEIL is complex. The researchers started with thousands of "seed images" that they gathered from Google Images in order to train NEIL to recognize patterns. They then used a clustering approach to set up specific models that NEIL can use for future searching. They built upon these models to develop relationships between objects. The program works so that each time NEIL identifies a new object or relationship, it adds to its body of knowledge and becomes better at making visual connections.

"What we have learned in the last 5-10 years of comput-

er vision research is that the more data you have, the better computer vision becomes," Gupta said in a university press release.

The public can follow NEIL in real-time through the website www.neil-kb.com. The website categorizes NEIL's knowledge base into objects such as "1950s_car", scenes such as "Alaska", and attributes, such as "brown." As NEIL's analysis becomes increasingly exhaustive, it will further develop the capability to sub-categorize objects and identify deeper relationships than those between objects. Furthermore, visitors to the site are allowed to send a request or submit a phrase for NEIL to look up.

The program isn't perfect, of course. NEIL can make mistakes during some searches, especially with homonyms. For example, the researchers mentioned that "Pink" could pose a problem as NEIL might be confused whether the term refers to the pop star or the color. Additionally, because NEIL runs all day, it is computationally intensive and requires over 200 processing cores in 2 clusters.

Moving forward, the team is excited for NEIL's potential contributions to the fields of scene classification and object classification. They will travel to Sydney, Australia in December to present their current findings at the Institute of Electrical and Electronics Engineers (IEEE) International Conference on Computer Vision.

CMU launches Institute for Strategic Analysis

JENNIFER GOLDA
Staffwriter

Last Tuesday, Carnegie Mellon University announced its creation of the Institute for Strategic Analysis (CMU-ISA). This new organization will offer a centralized office to coordinate consultations with senior U.S. defense, intelligence, and diplomatic officials pursuing science and engineering solutions.

Carnegie Mellon has long been considered a resource to National Security officials for its expertise in computer science, cybersecurity, decision science, and international relations. In addition to its reputation for conducting cutting-edge research in areas such as robotics, natural language processing, and human-computer interaction, Carnegie Mellon's history of coordinating interdisciplinary efforts translates to the university's ability to pragmatically approach complicated real-world problems.

Under the leadership of Kiron Skinner, the director of Carnegie Mellon's Center for International Relations and Politics and an associate pro-

fessor of social and decision sciences, the CMU-ISA will draw from the School of Computer Science, Dietrich College of Humanities and Social Sciences, and CIT to organize lecture series, fellowships, and short courses for defense and intelligence officials seeking expert advice. Before the creation of the institute, officials in need of consultation had to depend on their own research and connections to determine who in the university to contact. Now, the institute formalizes the process and optimizes it by serving as a liaison — officials can contact the CMU-ISA and members there will pull the resources together.

Work in the School of Computer Science and CIT have long been tapped for government usage.

"Carnegie Mellon isn't entering into policy debates, but providing information on the basic science that underlies policy and determines what is possible and what is not," Skinner emphasized in a university press release.

Another important distinction of the CMU-ISA from the university is that it will nei-

ther become a research institution nor will it administer degrees. Like Carnegie Mellon's Office of Government Relations, which works with more Congressional leaders than National Security ones, the CMU-ISA is intended to strictly facilitate connections between Carnegie Mellon and the government.

The institute will not facilitate research and will instead focus on providing information to federal agencies and seeking projects from them. In addition to describing itself as a resource to Congress members and their staff, the Office of Government Relations lists among its goals "to identify new opportunities for the university to engage in federally-funded research."

Federally funded projects are common at Carnegie Mellon. According to Carnegie Mellon's 2012-13 Consolidated Financial Statements, sponsored projects are the single largest source of operating revenue, totaling \$406.1 million in 2013. The federal government accounts for 86.7 percent of that funding, about 40 percent of which comes from the Department of Defense.



NEIL, a computer program, is able to identify relationships between objects by analyzing thousands of images.



Michelle Wan/Staff Artist

SCITECH BRIEFS

Diabetes drug could fight cancer

Researchers have discovered that metformin, a drug currently used to treat diabetes, could be used to treat cancer. Clinical trials are already underway to determine how effectively the drug treats various cancers. There are many benefits to the use of metformin as a cancer treatment. Metformin has a strong safety record and only mild side effects — as indicated by its use as a diabetes drug — and it’s inexpensive when compared with many other cancer-fighting drugs. Metformin could potentially treat a wide variety of cancers and even Parkinson’s.

Source: *Science Daily*

Volcano found under Antarctica

A group of scientists including Doug Wiens, a professor of earth and planetary science at Washington University in St. Louis, has discovered a volcano located a kilometer beneath the ice in West Antarctica. The scientists used a seismograph array to create images of the ice and rock in West Antarctica, and two unusual seismic events prompted a closer investigation of the area. They concluded that the volcano will definitely erupt. It will most likely not break through the ice above it, but could cause large-scale melting of ice in West Antarctica.

Source: *Science Daily*

Neanderthal virus found in human

Scientists from the U.K. have discovered evidence of ancient Neanderthal viruses in modern human DNA. They compared genetic data from fossils to that of current-day cancer patients; the results suggested that some modern viruses could have originated from diseases present in our ancestors over 500,000 years ago. The team is now researching whether these viruses, part of the HML2 family of viruses, are active in modern humans. Researchers hope that this new discovery will help scientists determine links between ancient viruses and modern diseases such as HIV and cancer.

Source: *Science Daily*

Young galaxies can offer space insight

Using the Atacama Large Millimeter Array telescope and NASA’s Hubble Space Telescope, astronomers have discovered three primitive galaxies 13 billion light-years from Earth. These galaxies, which are approximately 800 million years old, look as though they are ready to merge into one large galaxy. Astronomers believe this large galaxy, which they are calling Himiko, could eventually evolve into a galaxy like the Milky Way. Astronomers believe that Himiko could provide valuable insight on the formation of the earliest galaxies in the universe.

Source: *Science Daily*

Eating nuts shown to extend life

Studies at the University of Toronto have related the consumption of nuts with longer survival. The research was based on two long-term studies that investigated the health and lifestyle of approximately 119,000 health professionals for 24 to 30 years. Scientists found that people consuming at least 28 grams of nuts, two to four times a week, were 13 percent less likely to die during the study. People who ate nuts five to six times a week were 15 percent less likely to die, and those eating nuts seven or more times a week were 20 percent less likely to die. The scientists believe that it is too early to say that nuts alone will increase longevity, but they do support the idea that nuts are a strong part of a healthy diet.

Source: Reuters

Wearable tech gets battery upgrade

Researchers have discovered that polyester yarn can be used to create flexible, solar-powered batteries that could make wearable electronics even more convenient. Current wearable electronics, such as smartwatches and Google Glass, still involve a charger with a cord. Alternatives to this, such as textile batteries, are expensive and impractical for use in wearable electronics. Scientists have discovered, however, that polyester yarn coated with nickel and carbon produces a flexible battery that can be folded and stretched. This material can also be combined with lightweight solar cells, which removes the need to plug in wearable electronics.

Source: *The New York Times*

Compiled By
CLAIRE GIANAKAS

NASA closer to Mars with MAVEN

BROOKE KUEI
Assistant SciTech Editor

Nov. 18 marked a historic day for space exploration. At 1:28 p.m., NASA launched a 5,400-pound spacecraft on the Mars Atmosphere and Volatile Evolution (MAVEN) mission from Cape Canaveral Air Force Station in Florida, according to NASA’s MAVEN launch updates website.

Mars, named after the Roman god of war for its distinct red color, resides in an orbit approximately one and a half astronomical units from the sun. Home of Olympus Mons, the largest known volcano in the solar system, as well as the famous Valles Marineris canyons, Mars has long been a favorite among astronomers, as well as the planet on which the possibility of human habitation seems most probable.

Unfortunately, most studies of the intriguing planet have been done from observatories on Earth, which, at its closest approach to Mars, is still millions of miles away. According to *nineplanets.org*, the first spacecraft to visit Mars was Mariner 4 in 1965. Since then, several other missions to the elusive planet

have been made. However, NASA’s website states that the MAVEN spacecraft will surpass previous explorations to Mars: “[It] will provide information about the Red Planet’s atmosphere, climate history and potential habitability in greater detail than ever before.”

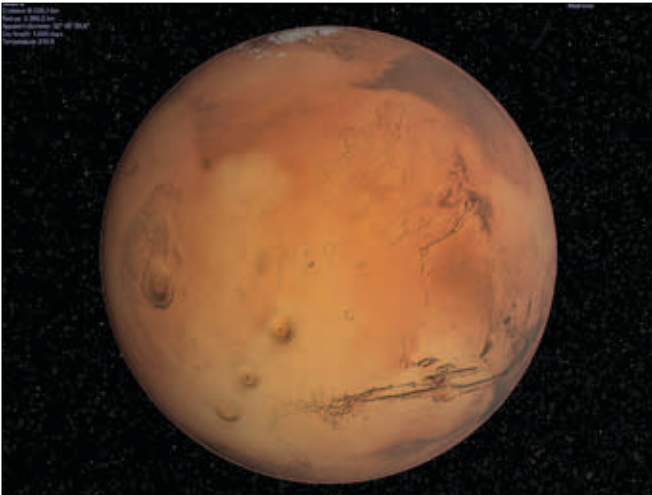
According to a NASA press release from the day of the launch, the MAVEN spacecraft separated from an Atlas V Centaur rocket’s second stage 53 minutes after the launch. Approximately seven minutes later, solar arrays powering the spacecraft were deployed, and the MAVEN was off on its 10-month journey to Mars. It should arrive at Mars next September.

The main goal of the MAVEN mission is to understand the upper atmosphere of Mars — in particular, how the loss of atmospheric gas to space changed and affected the climate of the planet. To calculate how much of the Martian atmosphere has escaped into space, MAVEN will measure the current rate of escape and gather information to learn about the process so that a backwards extrapolation can be done.

The mission team is comprised of a diverse group of scientists. MAVEN Project Manager David Mitchell is from NASA’s Goddard Space Flight Center in Greenbelt, Md., which manages the project and provided two science instruments for the mission. MAVEN Principal Investigator Bruce Jakosky works from the Laboratory for Atmospheric and Space Physics at the University of Colorado Boulder. The Space Sciences Laboratory at the University of California, Berkeley also provided science instruments for the

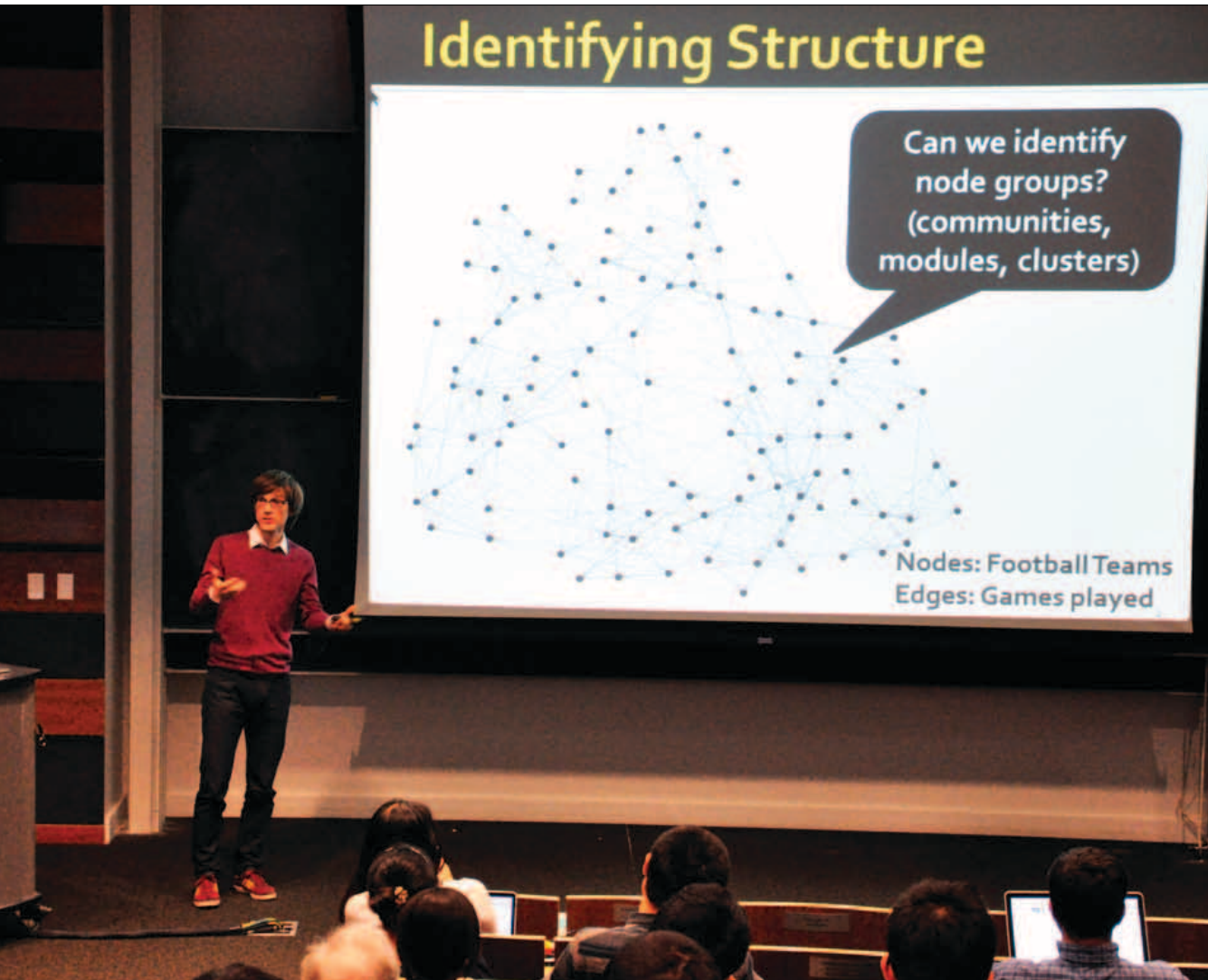
mission. NASA’s Jet Propulsion Laboratory in Pasadena, Calif. is instrumental in navigation support. Lockheed Martin built the spacecraft and is in charge of mission operations.

“After 10 years of developing the mission concept and then the hardware, it’s incredibly exciting to see MAVEN on its way,” Jakosky said in a NASA press release. “But the real excitement will come in 10 months, when we go into orbit around Mars and can start getting the science results we planned.”



Courtesy of Wikimedia Commons
The planet Mars as seen from Celestia, a 3-D astronomy program.

FEATURE PHOTO



Peter Lee/Staff Photographer
Jure Leskovec, an assistant professor of computer science at Stanford University, gave a lecture titled “Exploring the Structure of Networks and Communities” last Thursday in Rashid Auditorium. His talk covered machine learning and its uses analyzing online communities and their resulting networks.

Write for SciTech
scitech@thetartan.org

Summer Employment at Carnegie Mellon:
Teaching Assistant and Residential Counselor Jobs in
the Pennsylvania Governor’s School for the Sciences

Undergraduate summer employment at Carnegie Mellon University is available with the Pennsylvania Governor’s School for the Sciences (PGSS). The PGSS is a five-week summer school for extremely talented high school students from Pennsylvania. Teaching Assistant/Counselor appointments are available in the areas of biology, chemistry, computer science, physics and mathematics. Academic duties of the TA/Counselor include assisting with lecture and lab courses and mentoring team research projects. Counselor duties of the TA/Counselor include living in the same dormitory as the PGSS students, ensuring that students adhere to the PGSS disciplinary rules, providing tutorial help in the academic program, and arranging and conducting social activities.

Applicants should have finished their sophomore year by the start of the program. Preference will be given to applicants with strong academic records and strong social skills. Prior experience with PGSS or a similar summer program is preferred, but not required. Further information is available at the PGSS web site: www-pgss.mcs.cmu.edu.

Stipend for five-and-one-half week period:
\$2,250 for new TA/Counselors, \$2,500 for returning TA/Counselors

Housing is included (in the PGSS dorm) as well as a food allowance.

TA/Counselor duties begin Wednesday, June 25, 2014, end Sunday, August 3, 2014.

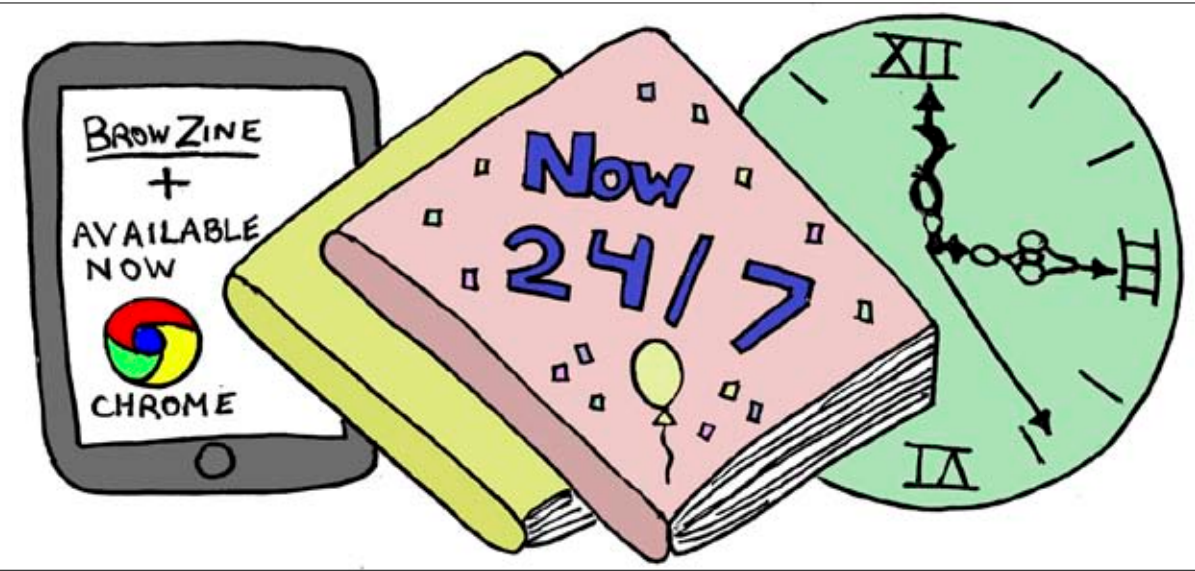
Applications are available from the PGSS Office in DH A301 or may be downloaded (pdf format) from the PGSS web site: www-pgss.mcs.cmu.edu

Contact the PGSS Program Office at (412) 268-6669 or e-mail pgss@cmu.edu

Application Deadline: March 1, 2014
(Applications may be accepted after the deadline until all positions are filled.)

Forum

FROM THE EDITORIAL BOARD



Braden Kelner/Forum Editor

University Libraries improvements much appreciated

How much time do students spend in Hunt Library each year? Whatever the astronomically high number, it's good to see that library staff care about improving the experience that students have when working within the libraries' walls. Carnegie Mellon University Libraries conducted a survey of students this semester, as well as last semester. Staff members asked for suggestions for improvement of the library's services and availability. University Libraries recently announced a long list of notable improvements via their website: Hunt Library will be open 24 hours a day as a trial run starting this Sunday through finals next semester, and

plans are underway to improve the selection of healthy options at the Maggie Murph Café. The library website itself has been redesigned, and 2,954 new journals have been licensed. The library now supports BrowZine, which will allow students to access scholarly journals and articles from their mobile devices. University Libraries even listened to some of the smallest feedback requests, such as installing Google Chrome on its computers. Library staff also announced that they will launch another survey during the upcoming spring semester, meaning that they will continue to pay attention to the needs of students. The initiative taken by the li-

brary's staff is truly commendable. Listening to the desires of students is a sign of a responsive and caring staff. Beyond the significant advantages for students in doing their work, these innovations are also an achievement for the university. The library actively seeked student feedback and implemented that feedback in highly visible ways. Other parts of the university community could help students immensely if they took similar measures with an open willingness to change and better fit what students need or want. This sort of proactive strategy is exactly what Carnegie Mellon should be using in its other initiatives.

CAPS must take initiative to gain student feedback

It's no secret that Carnegie Mellon has developed a reputation for having a culture of stress. As a result, many students find the need to seek out additional support for their mental health, especially at a high-stress time like the approaching finals period. Carnegie Mellon's own Counseling and Psychological Services (CAPS) has come under scrutiny for what some students suggest are ineffective methods for scheduling appointments to see counselors.

In a high-stress campus culture like Carnegie Mellon's, having convenient and effective mental health support is necessary. CAPS can serve this campus better by taking two key actions: first, implementing an online scheduling system for scheduling both diagnostic and regular appointments, and second, reaching out to students to get their ideas for improving their services.

Academic departments, such as the economics, engineering, and public policy departments already have online scheduling systems in place for their advisers. Students can visit a webpage and see blocks of time available for meetings on their advisers' calendars. By selecting a block and entering their Andrew ID, students can schedule a time to meet and discuss their academic situation. The same option should be available for students to discuss their mental well-being. The current CAPS intake process involves a questionnaire, which the service can easily integrate into an online framework to make psychological services more readily available.

To better gauge campus needs, CAPS should implement an easy way to collect student thoughts about the service, possibly by requesting feedback or providing online surveys

after appointments. A survey is a highly visible way for CAPS to show the student body that it cares about their individual needs.

Alternatively, CAPS could create an anonymous online suggestion box to accompany an online scheduling system. These initiatives would allow CAPS to easily build trust, which may not fully exist now, with students on campus. CAPS can benefit as an organization and better serve the needs of our community by welcoming feedback and suggestions from students.

Carnegie Mellon must support its students by providing convenient care to ensure that their mental health remains optimal at all times of the year. By implementing an online scheduling system and reaching out for student feedback, CAPS can become a resource to help the campus truly thrive.

Suresh's inauguration a way to better campus culture

Earlier this month, Carnegie Mellon celebrated the inauguration of ninth president Subra Suresh with campus-wide festivities. In the context of Carnegie Mellon's history, the beginning of Suresh's time as president is a critical time of transition for the university.

The campus made incredible strides over the last few decades, and Carnegie Mellon has made itself an unquestionable pioneer in research and academia. Now, the school has an opportunity to focus inward and reflect with the inauguration of President Suresh.

The internal issues that the school has are clear to current students. There's a lack of school pride; with exams, papers, and problem sets around every corner, students are often pushed to put their noses to the grindstone and forgo the social aspects and events that the school has to offer.

This tendency also produces alumni who don't necessarily

look back on the school itself with fondness.

Maybe the best indicator of alumni fondness is their lack of donations. According to the Carnegie Mellon Alumni & Reunion Giving site, for every \$1 in endowment funds that Carnegie Mellon receives, our peers such as the California Institute of Technology, the Massachusetts Institute of Technology, and Stanford University receive \$7.68, \$9.96, and \$11.50, respectively.

While the university makes a strong effort to land students their dream jobs, it needs to go further to ensure that students are cared for while at the university. The university initiated efforts to improve the campus culture with the series of town halls on stress, but those visible efforts have disappeared.

Though these overarching problems exist at Carnegie Mellon, the inauguration benefitted the students and faculty in a real way. In addition to celebrating Suresh, the inaugura-

tion did something else: It stressed the uniqueness and community of the school during the ceremony and celebrations. Student talent was also recognized during the campus celebration when they showed off their research, work, and service on the University Center's second floor. These kinds of events should continue, since they foster a sense of community that isn't currently present on campus.

But now is time for the school to realize the importance of everyone here: students, faculty, and staff. They are the heart of the university — the heart that is in the work — and they need to be treated with more care.

We can be pioneers in our endeavors and care for our own, simultaneously. Let's make sure that as we usher in President Suresh, the university takes this time to put more focus on the well-being of students here, because that more than anything will foster pride in the university.

Student paper restricts term, restricts its writers

Braden Kelner

BRADEN KELNER

Students on *The Playwickian*, the school newspaper at Neshaminy High School in Langhorne, Pa., recently announced that they no longer publish the school's mascot name, which is the Redskins. Instead of using the term, the journalists circumvent it — for example, calling the football team the Neshaminy football squad, not the Neshaminy Redskins. In its "Unsigned Editorial: Why we won't publish the R-Word" — signed by two-thirds of the editorial board — the board describes the word as "a term of hate." Tension between administrators and the board gained national attention when administrators told the board that it had to use the term.

As a Neshaminy alumnus myself, I have only heard the word used to foster community for school-wide events. However, many members of the community rightfully see the word as derogatory given its history.

It is admirable that the board took a strong stance on the use of a controversial word. Furthermore, it is understandable that the board will not use the term in sections like news, based on the opinion of the majority. After all, article style should be uniform across sections.

By banning the word from all parts of the paper, though, the editorial board misunderstood its role as a learning publication within the high school. *The Playwickian* is a publication that is meant to encour-

age the growth of young writers and introduce students to journalism.

The board should have made a clear exception for the term's use in editorials. After all, there is a clear distinction between individuals' opinions and editorial board's opinions. The board was justified in taking the stance that it did against the term in articles that express the opinion of the entire paper. However, it is not justified in blanketing this stance to individuals' editorials.

While the editorial board has the right to place restrictions on expletives, this specific restriction seems to place barriers between the board and the student body. Students may not be receptive to controversial rules handed down by the board, which may hinder their relationship with the paper. They should not feel disconnected from a paper that can provide a great learning experience.

Especially in a paper in which the work of first-time writers is published, there should not be a restrictive environment over the use of a term that has mixed connotations. This environment is not healthy for fostering a student's abilities, which should be the top priority of the paper. High school is a vital time to develop interests, and the newspaper's hard stance on this term could stop some students from exploring an interest in journalism.

When considering the term in individual editorials, the board should allow students to use their own discretion with the term to promote an unrestricted environment for individual editorial writers.

Braden Kelner (bik@) is Forum editor for The Tartan.

Loan bubble may burst

Brandon Schmuck

BRANDON SCHMUCK

According to the Institute for College Access and Success Project on Student Debt, college students who borrow loans will graduate with about \$26,600 of debt. According to Gordon Wadsworth, author of *The College Trap*, college tuition has increased over 2.5 times the rate of inflation since 1985. Clearly, America has a problem with tuition price increases and student debt.

The U.S. is trapped in a student loan bubble, which is susceptible to burst. Like the housing bubble, it is caused by carelessly gifting loans to students who won't graduate and will fail to pay them back. This phenomenon was described earlier this month by professor Richard Vedder of Ohio University at the Students For Liberty Pittsburgh Regional Conference at Duquesne University. Students are taking longer to graduate, and many are failing to complete their education.

Vedder stated that students are being encouraged by many public universities to take a fifth or sixth year to receive their bachelor's degree, and 34 of all students percent do so. This prolonged time in college increases their debt and raises tuition because of increased demand.

Ironically, as Vedder points out in a *Bloomberg* article, "Elite private schools can cost far less relative to public schools, not only because of the top schools' generous aid, but also because students mostly gradu-

ate in the advertised four years, while those at state schools don't." Many elite universities push students to complete degrees in four years and deny aid after the initial four years. Vedder calculated that this push caused a median of 87 percent of students in elite universities to graduate in four years, while a sad 25 percent graduated in this allotted time in public universities.

This decreasing graduation rate and increasing debt can be attributed to the idea that a person must go to college to be successful. This idea is far from true. During his speech, Vedder stressed, "We have more janitors with bachelor's degrees than chemists with bachelor's degrees." While this may be hard to believe, the Bureau of Labor Statistics revealed that 115,000 janitors, 83,000 bartenders, and 323,000 restaurant servers have bachelor's degrees.

Student loans have constantly increased the demand for education, attracting a large number of people who may not be truly suited for college. After all, academics are not for all and, until recently, were seen as an option among many others. In return, the cost of college education has also begun to exponentially increase, as those who drop out or take additional years make it more expensive for others to attend college and graduate in four years.

By offering subsidized loans to almost anyone and making students believe that college is necessary, the government may be hurting young adults by making college seem like an inevitability instead of an option.

Brandon Schmuck (bschmuck@) is a staffwriter for The Tartan.

Editorial Board

JENNIFER COLOMA *
Publisher
JOSH SMITH *
Editor-in-Chief

BRADEN KELNER
Forum Editor
EVAN KAHN *
Copy Manager

JUSTIN MCGOWN
Online Editor
CHLOE THOMPSON
Staffwriter

BRENT HEARD *
Senior Staff

Editorial Staff

KELSEY SCOTT *
Operations Manager
NÖEL UM
News Co-Editor
BRIAN TRIMBOLI
News Co-Editor
MICHAEL SETZER
SciTech Editor
WILLIAM PARK
Sports Editor
RACHEL COHEN
Pillbox Editor

KAIRAVI CHAHAL
Comics Editor
KATE GROSCHNER
Photo Editor
LAURA SCHERB
Personnel Manager
WILL CRICHTON
Systems Manager
SWATHI ANAND
Layout Manager
JOHN HUO
Advertising Manager

DESIREE XU
Business Manager
BENJAMIN CHANG
Asst. Business Manager
JONATHAN LEUNG
Asst. Photo Editor
HANNAH DELLABELLA
Asst. Copy Manager
JAMES WU
Asst. Copy Manager

JULIA YANG
Asst. Copy Manager
BROOKE KUEI
Asst. SciTech Editor
JOEY PEISER
Asst. Pillbox Editor
JONATHAN CARREON
Contributing Editor

* Denotes executive committee member

Staff

SENIOR STAFF
Stephanie Blotner, Carl Glazer, Greg Hanneman

COPY
Lula Beresford-Banker, Francesca Begos, Matt Brown, Connie Chan, Nivedita Chopra, Gordon Estes, Blaine Greenberg, Ariel Hoffmaier, Katherine Huang, Karyn Michela, Satvika Neti, Mackenzie Nicholson, Gates Palissery, Taylor Rawley, Stephanie Stern

LAYOUT
Adrian Amegashie, Manali Banjeree, Yong Gun Choe, Sara-Remi Fields, Anne-Sophie Kim, Mina Kim, Linging Sun, Tanguri Tzuo

ADVERTISING
Alison Chiu, Linda Ju, Anuva Kulkarni, Gretchen Tan

THE TARTAN



The Tartan is a student newspaper at Carnegie Mellon University, funded in part by the student activities fee. It is a weekly publication by students during the fall and spring semesters, printed by Trib Total Media. The Tartan is not an official publication of Carnegie Mellon University.

The Editorials appearing at the beginning of the opinion section are the official opinion of The Tartan Editorial Board. Columns, Editorial Cartoons, and Reviews are the opinions of their individual creators. The Tartan Editorial Staff reserves the right to withhold from publication any copy it deems unfit.

Letters to the Editor are the opinions of their authors. Letters from within the University community take precedence. Letters intended for publication must be signed and include the author's address and telephone number for verification; letters must not exceed 350 words. Authors' names may be withheld from publication upon request. The Tartan reserves the right to condense or reject any letter. Letters must be submitted by 5 p.m. on the Wednesday before publication by mail or to forum@thetartan.org.

Office: University Center 314
Phone: (412) 268-2111
Fax: (412) 268-1596
Web: www.thetartan.org
E-mail: contact@thetartan.org

Mail:
The Tartan
Box 119, UC Suite 103
5000 Forbes Avenue
Pittsburgh, PA 15213



Appropriate filibuster reform needed

Chloe E Thompson

CHLOE THOMPSON

The United States Senate eliminated the use of filibusters for high-position nominations made by presidents this past Thursday. Executive-office appointments may now be approved by a simple majority, rather than by the 60-vote supermajority required since 1975. This change in legislation means that the majority can approve nominations without bipartisan support. This ruling will not affect Supreme Court nominations, or actual legislation.

Democrats — among them majority leader Senator Harry Reid (D-Nev.) and President Barack Obama — believe that this change in procedure is part of the natural evolution of the Senate, and will end the bitterly partisan gridlocks that have dominated nearly every Senate decision since President Obama took office. Republicans, including minority leader Senator Mitch McConnell (R-Ky.), claim that the Democrats have deeply damaged the system of Senate, and muffled the voice of the minority in politics.

While the limits placed on filibusters have the potential to backfire, they are a justified attempt to change a system that has sustained heavy damage from partisan politics. The partisan division of politics has become an extreme problem in U.S. politics, requiring an extreme solution.

The limitation of filibusters comes with consequences, the most glaring being that the change sets a potentially dangerous precedent. Currently, the law has no effect on legislation or Supreme Court nominations, but that could change. Democrats are making a huge gamble that they will retain control of the Senate in the 2014 election. Even if Democrats maintain their majority in this

upcoming election, they will lose it eventually, as is the way of politics. Republican leaders have indicated that if they regain the majority in the Senate, they could use these changes to end the Affordable Care Act with a simple majority. The elimination of filibusters is not without its problems or implications.

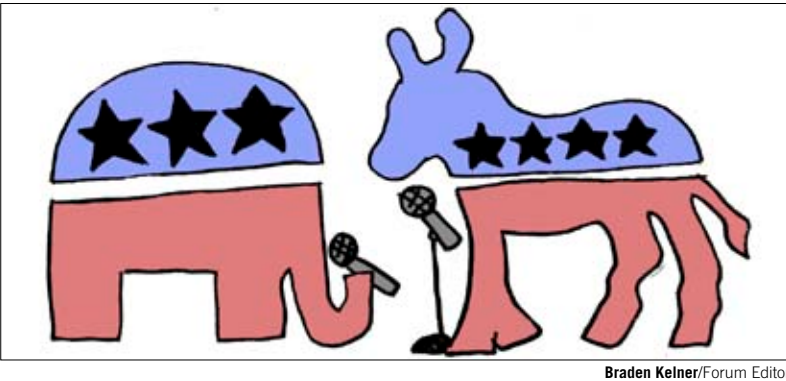
However, examining why Democrats felt the need to employ these limitations on the use of filibusters is also extremely important. Historically, filibuster reforms have been implemented after extreme use of filibusters. The Senate implemented the two-thirds majority rule in 1917, in response to repeated filibusters over President Woodrow Wilson's preparations for World War I. In 1919, this rule came into effect and ended a filibuster of the Treaty of Versailles. In short, filibusters were created to deal with extremely important governmental decisions; they were created for the big issues.

However, this use has changed over time, as evidenced by the Republicans' filibustering of all of President Obama's nominations for the Washington, D.C. circuit court and other high officials. Republicans who filibustered these positions rarely offered a concrete reason as to why they disapproved of those particular candidates, and appear to be filibustering just to block Democratic attempts at governance, which is a clear abuse of the nature of filibusters. Both parties are guilty of misusing filibusters for political purposes, and the filibuster has strayed far afield from its original intention: to address massively important issues, not simply gum up the works of politics.

Throughout the years since Wilson, filibusters have not been used excessively, though their popularity increased during President George W. Bush's term. According to *Mother Jones*, during President Bush's administration, Democrats filibustered 38 of his nominees, or roughly five per year. However, that number has seen a dramatic increase during President Obama's term, with an average of 16 nominees filibustered per year — triple the amount we saw with Bush. This is clear indication that the filibuster is being used to hobble the majority's attempts to lead. Filibusters should only be used when the minority party has clear and deep-seated concerns with a particular candidate or issue.

The two most popular opinions on the Democrats' decision to limit filibusters are these: that the Democrats are making a grab for more power — at the expense of the possibilities this precedent creates — and that they are trying to work with a thoroughly partisan and deeply fractured system. Though this decision will certainly have consequences, it was a justified attempt to fix a system that has been scarred by partisan politics.

Chloe Thompson (cet@) is a staffwriter for The Tartan.



Braden Kelnier/Forum Editor

Krokodil drug scare distorted by media

X. Wang

XIYU WANG

If you've read the news recently, you've probably read about the scare over Krokodil. Krokodil, or desomorphine, is a drug that first popped up in Russia in the early 2000s as a substitute for heroin, and is known for its shocking side effects — it leaves the skin scaly and discolored (much like a crocodile's), and in the worst cases may eat away the flesh entirely.

Given its horrifying properties, it seems unbelievable that use of this drug would spread. However, media outlets seem to take it as given that the drug is becoming an epidemic. One headline by *The Huffington Post* reads "Krokodil Could Be Spreading Across U.S.," and one CBS headline warns, "Krokodil use reportedly spreading." Is it really the case that Krokodil is an emerging threat to the public?

In reality, it is dubious that the drug has even reached North American shores. Although the drug is

known for its necrotizing properties, infected IV needles may cause similar effects, creating a number of false positives. One Gawker headline reads "Flesh-Eating Drug Krokodil is Now Attacking Chicago Suburbs," when the article mentions that only three cases have been reported. Similarly, headlines have been decrying the spread of the drug to places such as Ohio, Arizona, and even Canada, when, in all of these areas, there are less than a handful of cases of the drug, none of them actually confirmed by laboratory testing.

Looking a bit more into the issue, it becomes clear that the fears of an epidemic are entirely unsubstantiated. As an *International Business Times* article states: "Experts have said it is unlikely the drug has even really left Russia, as it is only used by people in remote parts of the country where heroin has become too expensive or unavailable — it is turned to as a last resort among addicts." The article goes on to further mention that there have been no cases of Krokodil confirmed by the Drug Enforcement Administration laboratory.

The coverage of Krokodil is highly reminiscent of the bath salts scare

from last year. In fact, it is all too common for the news media to depict every new drug that pops up as an epidemic. Maybe it comes from the psychology created by the war on drugs: If there is a new drug, it is assumed that people, especially drug users, are constantly searching for a new high and are desperate to get their hands on anything to experience it. This particular case of Krokodil may also play to the zombie fascination in society; many articles describe it as a "zombie" drug.

The media needs to stop hyping up cases where a new drug has been reportedly used. It is sophomoric and highly grating upon the collective intelligence of the public to create a panic every time a few random people use a new drug.

Furthermore, although drug addiction is a serious problem in the U.S., this kind of sensationalism distorts the truth of the matter. Intelligent discourse in the media regarding the war on drugs is long due, although it may take a while before we actually get it.

Xiyu Wang (xiyuw@) is a staffwriter for The Tartan.

Retailers are imposing on Thanksgiving Day

Ariel Hoffmaier

ARIEL HOFFMAIER

Retailers are increasingly breaking tradition and extending Black Friday insanity into Thanksgiving Day. For the first time, popular stores like Toys "R" Us, Best Buy, and Macy's are pushing forward their opening times from the early hours of Friday morning to the late or even early hours of Thursday evening — times likely smack in the middle of family dinner.

Typically considered the official start of the holiday shopping season, Black Friday is responsible for attracting hordes of shoppers, aggressively competing for the best deals on merchandise.

Unsurprisingly, it is the busiest and most profitable shopping day of the year. Last year, Black Friday shoppers spent a combined \$59.1 billion, according to the National Retail Federation. It could be considered a national holiday on its own, with its pervasiveness and seemingly bizarre traditions.

There are generally two teams when it comes to Black Friday. First, there are those who embrace it — prepared to wait in the cold for hours, face the madness, and marathon shop until they drop. Second are those who laugh at the ridiculousness of it and shake their heads at this prime example of America's consumerism culture. Like it or hate it, though, Black Friday has its place.

Retailers have forgotten their place, however. They seem to have developed an inflated sense of their own importance, or have become so hungry for profits that tradition has lost meaning. It is ironic enough that a holiday centered on being thankful for family and blessings is immediately followed by a day dedicated to abandoning family for shops and

the purchase of everything possible. This irony turns to hypocrisy, and disrespect, when the former is intruded on by the latter.

What right do stores have to pull people from their families on Thanksgiving?

Even those who determinedly avoid malls on Black Friday and swear that they would never resort to shopping on Thanksgiving Day will likely be impacted by earlier start times. If the stores are open, people will go, even when that means running out on their families before the pumpkin pie is served. Thanksgiving could be ruined altogether for countless retail workers who have no choice over whether or not they work.

Stores have prioritized materialism over family values, and customers may follow suit.

The change in trends has disturbing implications. Though certain stores are still holding out against the wave of earlier openings, such as Costco and Barnes & Noble, it is doubtful that they will be able to resist the pressure forever. Increasingly in the minority, these stores will lose out on valuable Thanksgiving Day profits that their competitors are taking advantage of, and will eventually be forced to succumb as a matter of simple business sense. It seems only a matter of time before Thanksgiving will become just another shopping day.

Is there anything that can be done to stop this trend? Perhaps if Black Friday was made an official calendar holiday, its events might be better confined.

However, sparing more forceful action, people should resist the urge to snag Thanksgiving Day sales. Keep the holiday special — enjoy good food, spend time with loved ones, and be grateful. The shopping can wait until Friday.

Ariel Hoffmaier (ahoffmai@) is a staffwriter for The Tartan.



Braden Kelnier/Forum Editor

A PERSON'S OPINION

Compiled by Justin McGown

The Tartan is ready for Thanksgiving break. So we asked, **What Thanksgiving side are you most looking forward to?**



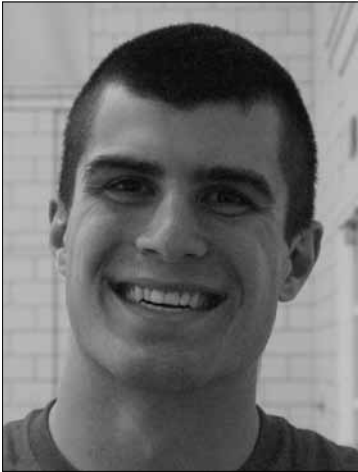
Muyuan Li
ChemE, BME
Sophomore

"Traditional Chinese food."



Debomita Basu
Materials Science & Engineering
First-year

"Mashed potatoes and gravy."



Vince Demarchi
Business Administration
Sophomore

"Stuffing."



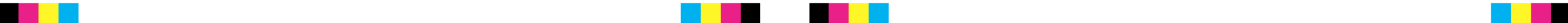
Becca Stoll
Sound Design
Senior

"Latkes!"



Ben Burgess
Professional Writing
Sophomore

"Sweet potato torte."



FEATURE PHOTOS

After big win over Thiel, women’s basketball jumps to 5–0



On Sunday, the women’s basketball team defeated visitors Thiel College 84–38. **Left:** Sophomore Amanda McHenry battles for an offensive rebound. **Top Right:** First-year Uzoma Nwankwo and sophomore Lindsay Poss grab a rebound. Poss leads the team in rebounding, averaging 8.2 per game. **Bottom Right:** Sophomore Liza Otto makes a cross-court pass. Otto finished Sunday’s game with 15 points and five rebounds.

Maryyann Landlord/Staff Photographer

CARNEGIE
MELLON
SCHOOL
OF MUSIC

2013–14 CONCERT SERIES

Annual Holiday Concert
with the
Philharmonic & Choirs
Maria Sensi Sellner, conductor

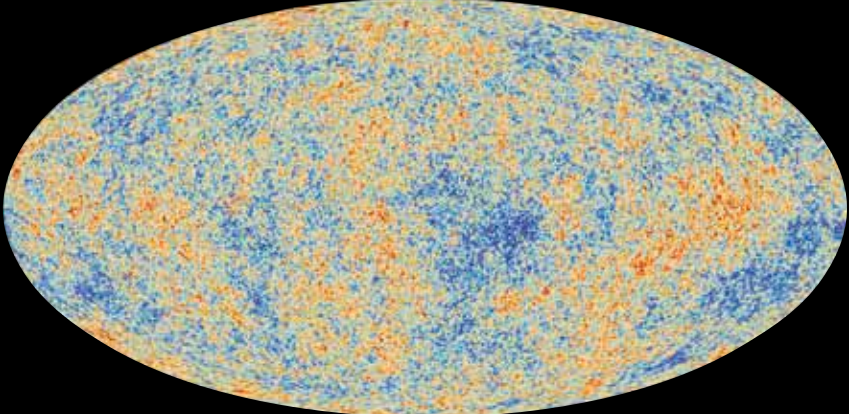
Thursday, December 5, 8pm
Carnegie Music Hall, Oakland
Free with a CMU ID at the door.

music.cmu.edu




THE BENNETT-McWILLIAMS
LECTURE

“INFLATIONARY COSMOLOGY:
IS OUR UNIVERSE PART OF A MULTIVERSE?”



The universe at 380,000 years; the Cosmic Microwave Background as seen by the Planck satellite

4:30 P.M., TUESDAY, DEC. 3, 2013
RASHID AUDITORIUM
GATES AND HILLMAN CENTERS
CARNEGIE MELLON UNIVERSITY
FREE AND OPEN TO THE PUBLIC
RECEPTION TO FOLLOW



SPEAKER BIO:
Alan H. Guth is the Victor F. Weisskopf Professor of Physics and a Margaret MacVicar Faculty Fellow at the Massachusetts Institute of Technology.

Carnegie Mellon University
Mellon College of Science

Sports

Newby and Schnepf race for CMU in NCAA Championships

SHANA SINGH
Junior Staffwriter

Senior Josh Newby and sophomore Rekha Schnepf took on the 2013 NCAA Division III Cross Country Championships this past Saturday at Hanover College.

This was Newby's second appearance at the national level of competition, his first being with the team last fall. Schnepf grazed the NCAA course for the first time and is the first woman to compete in the NCAA Championship for the Tartans since the 2011 season.

Josh Newby ran a great race, placing 53rd in the nation and fifth in the conference with a time of 25:35.

Newby started the first two miles of the race pretty con-

servatively, and then spent the next three miles quickening his pace and making up a lot of ground.

There were 275 men competing in the race, leaving runners "jostling and elbows and spikes flying around on the turns," Newby said.

The Palo Alto native has been running since his freshman year of high school, which is when his training for Saturday's NCAA Championships began.

"Your fitness multiplies and grows over time, so you can't just reach maximal fitness in just one season.... It is literally an eight year process," he said.

The senior can't imagine his life without running: "The discipline it has taught me and the fact that I've worked towards the goal of becoming a

better runner pretty much for two hours every day for eight years; I have to imagine that has made me more disciplined in other parts of my life."

For Newby, running is a battle against the mind. "It's a release. Your body reverts to muscle memory and you zone out; you're not worried about what's going on in your classes or your social life," he said.

Looking back at his collegiate career, Newby's favorite memory was making the NCAA Championship as a team last year. "It was most beneficial bonding experience the team has had because we worked together toward the goal for the entire season and it paid off," he said.

As a first-year, Newby looked up to the seniors in awe.

Being a senior now, it's hard for him to believe that he is now the role model for the underclassmen.

"If I knew as a freshman that I would end up going to NCAA's individually my senior year, I would have been pretty amazed," he said.

In the future, Newby plans on training for marathons; the longest race he has run up to date is a half marathon. "It's a completely different beast," Newby claims, "it's a mental battle way more than a physical one."

As Newby ends his career on a high note, Schnepf is making leaps and bounds as a sophomore.

On Saturday, Schnepf finished the 6k course with a time of 23:17, placing 189th out of 280 competitors.

Although her time was not a season best, the race was a great learning experience for her.

Schnepf started running several years before high school because her father was a runner in college.

While training for races, Schnepf puts her best foot forward though is constantly worried about getting injured. "Because then you can't run and you can't get any better," she said. Luckily, the sophomore had an injury-free spring and summer, setting a solid foundation for her great season.

The thought of qualifying individually hadn't even crossed Schnepf's mind. "I thought as a team we had a really good chance of making it together, but there are so

many moving parts that you can never really predict that," she said.

"I wasn't even sure that I had made it to regionals, let alone nationals," Schnepf said. "I don't want to get my hopes up and end up being disappointed."

After her success this season, Schnepf is destined to be a team captain, but she is going to wait her turn. "I think we have some really great upperclassmen that deserve to be captain next year," Schnepf said.

She is excited about the fresh talent on the team: "They should know they have a lot of potential."

As Newby ends his career on a high note, Schnepf represents the future of the women's cross country team.



Sophomore Rekha Schnepf (left) finished 189th out of 280 racers in Saturday's NCAA Championships held at Hanover College, and senior Josh Newby (right) finished 53rd out of 275 overall and placed fifth in the conference.

SPORTS COMMENTARY

Fielder-Kinsler trade works perfectly for Detroit and Texas

CARL GLAZER
Senior Staffwriter

One-for-one trades are rare in professional sports.

With multiple draft picks and role players available, teams almost always toss in a few fillers to balance swapped players' salaries and skill levels. This is even truer in baseball when teams have access to their deep minor league system.

That's why the Texas Rangers's trade of All-Star second baseman Ian Kinsler and \$30 million to the Detroit Tigers for first baseman Prince Fielder was that much more shocking.

For both teams, this deal gave up some of their strengths in return for help in an area of desperate need. The

Tigers had three power hitting first basemen/designated hitters in Fielder, 2013 American League MVP Miguel Cabrera, and former catcher Victor Martinez.

When Detroit signed Fielder back in 2012, Martinez had just been knocked out of the year with a torn ACL injury, and the Tigers still thought they were in a position to compete for a World Series. Fielder was still available on the free agent market and the Tigers brought him in to help them compete, but at the steep cost of a \$214 million contract over nine years.

Now Martinez is healthy and productive again, while the Tigers are off to a disappointing loss to the eventual champion Boston Red Sox in the American League Champi-

onship Series. Cabrera's deficiencies at third base have become unbearable as he ages, and neither he nor Fielder desired to become the full-time designated hitter.

Detroit is also about to hit a payroll bind when CY Young winner Max Scherzer becomes a free agent at the end of the 2014 season and Cabrera's contract expires after 2015.

Detroit's trade for Kinsler filled two needs. First, payroll relief: Kinsler will make \$57 million over the next four seasons, while Fielder will make \$168 million over the next seven years.

Second, Kinsler and Detroit's shortstop Jose Iglesias, who was acquired in a mid-season trade with the Red Sox, will help turn what was a defensive liability in the infield

into a strength. Cabrera will move over to his more natural position at first base and top prospect Nick Castellanos will likely be the starting third basemen. Castellanos brings a lot more range to the hot corner than Cabrera, along with some added speed.

For the Rangers, Fielder fills a massive hole in the middle of their lineup. After losing All-Stars Josh Hamilton and Mike Napoli to free agency the past two seasons, Texas was missing some pop in the middle of its line-up.

This became apparent once slugger Nelson Cruz started his 50-game suspension in connection with the biogenesis performance-enhancing drug scandal. Cruz is now a free agent and already turned down the Rangers' qualifying

offer, and there a few power-hitting free agents available who can fill the void. With Fielder, however, the Rangers have a strong left-handed hitter in the middle of the lineup to complement third baseman Adrian Beltre.

Kinsler's absence also opens up the logjam in the middle of the infield. With shortstop Elvis Andrus signing an eight year, \$120 million contract extension at the start of the season, top prospect Jurickson Profar was stuck with no place to play.

Profar played a fill-in role this past year, split time at third base, shortstop, second base, left field and designated hitter. His offensive game struggled as a result. He had a meager 0.234 batting average in 85 games.

The Rangers have no problem taking on the extra payroll with the Rangers' local television contract about to balloon in 2015. The Rangers are one of the few contending teams that are looking to expand payroll instead of contract it and are likely to add at least one or two more big names before the offseason is over, be it through trade or free agency.

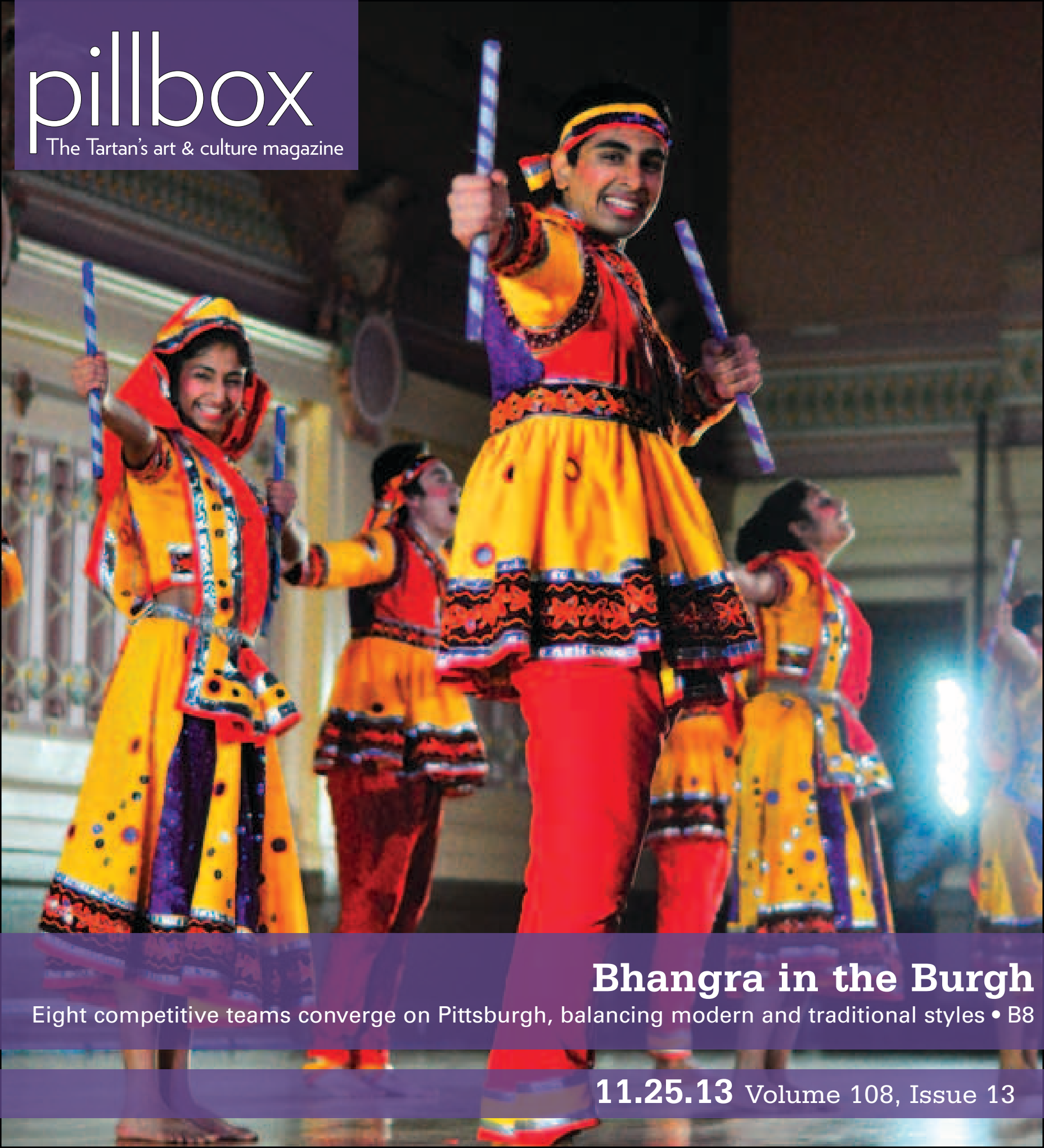
This was a perfect fit for the two teams. Each team had an excess of talent at premium positions and a deficiency in other areas. It's bold for general managers to make these moves with large room for speculation about their effect five years down the line. But the Tigers and Rangers want to win and have now shown the league that they will do anything necessary to do so.



Write for Sports!

Tickets to sporting events, interviews with athletes, valuable writing experience.

sports@thetartan.org



Bhangra in the Burgh

Eight competitive teams converge on Pittsburgh, balancing modern and traditional styles • B8

11.25.13 Volume 108, Issue 13

...this week only



- 3 **Shearwater**
The band fails to capitalize on past successes with its cover album *Fellow Travelers*.
- 4 **Doctor Who**
The popular television show turned 50 this week and celebrated with a special episode.
- 5 **Craft festival**
The I Made It! Market festival offers visitors a different shopping experience.
- 6 **Potted Potter**
The show that condenses the entire *Harry Potter* saga into 70 comic minutes.
- 7 **Binge TV**
A selection of television fare perfect for long stretches of completely sedentary viewing.
- 8 **Bhangra**
The seventh-annual Bhangra in the Burgh brings a colorful display to Soldiers & Sailors.
- 10 **Bob Dylan**
New "Like a Rolling Stone" video is an artistic, as well as technological, achievement.



regulars...

- 3 **Advice**
Everything you need to know about print quotas and Thanksgiving travel.
- 11 **Comics**
Drown out your family's fights this Thanksgiving by laughing at this week's comics.

...diversions

- 13 **Puzzles**
If you can't solve these puzzles, what are you even doing with your life?
- 14 **Horoscopes**
Look for a hidden message in this week's horoscopes.
- 15 **Calendar**
Consult the calendar for upcoming and ongoing events in the arts and culture scene.

PUBLISHER Jennifer Coloma **EDITOR-IN-CHIEF** Josh Smith
PILLBOX EDITOR Rachel Cohen **ASSISTANT PILLBOX EDITOR** Joey Peiser
COMICS EDITOR Kairavi Chahal **PHOTO EDITOR** Kate Groschner
COPY MANAGER Evan Kahn **COVER** Jason Chen

Shearwater disappoints

Indie rock band's newest release is poorly timed

Indie rock band Shearwater had finally made a name for itself with its previous three albums. 2008's *Rook* got the artsy, nature-themed band some critical acclaim; *The Golden Archipelago* built on that success and expanded the band's instrumental and color palates; and last year's *Animal Joy* was the most commercially successful. The album freed up the band's primitive and primal sensibilities with its Andrew-Bird-meets-Bruce-Springsteen feel.

The three albums contain some of the best indie music produced in the past decade — lead singer Jonathan Meiburg's voice makes Bon Iver sound like a whining schoolboy — but Shearwater hasn't yet done anything to put its name on the map. Meiburg and his cohorts are still working on a new solo album to build on their triumphs.

In the meantime, we get *Fellow Travelers*, a cover album that does little good for the band. If anything, it ensures that Shearwater's next album won't receive as much attention as it should.

Granted, the album's theme has merit. The band covered songs by current influences instead of older ones: Each song on the album belongs to a group Shearwater toured with. Meiburg's arrangements scream forgettable, however, and so do the songs the band chose to cover.

Fellow Travelers starts out strong, with the closest Shearwater's ever come to a rock anthem: "Xiu Xiu's 'I Luv The Valley OH!!'" Meiburg channels his inner Josh Homme from Queens of the Stone Age, but it's nowhere near as thrilling or well paced as any upbeat track from *Animal Joy*.



Courtesy of Michael Gallacher via Flickr

St. Vincent's "Cheerleader" wins the award for worst song choice. She has dozens of songs that would be better fit for Shearwater's aesthetic, but instead they took one of her most well-known tunes and took it too close to the country genre for comfort.

"F****d Up Life" is another subpar track, and offers an odd experience. Hearing the f-bomb repeatedly fall out of Meiburg's magnificent mouth is like eating pudding from a bowl lined with garlic salt. It's distasteful and unnatural. The band's sound is often so pure that expletives sully them, making them seem cheap.

This isn't to say that *Fellow Travelers* doesn't have good songs — David Thomas Broughton's "Ambiguity" is the simplest, most introspective, and most effective on the album. A repeating chord progression in the harp and a fairly static synth pad are all Meiburg needs to float and toy with lines like, "Such selfishnesses trivialize any tenderness/As the coffee commands the torture of my bowels."

The drum and bass on a few of the tracks — "F****d Up Life" in particular — may not be processed, but it sure sounds like it. Even for a cover album, this departure from what the band is good at — especially while they're still developing that sound — doesn't seem like a great idea.

Shearwater's main appeal lies in its excessively organic sound. Every song is like a journey through a different expanse of wilderness: a mad rush through the deep forest ("You As You Were," *Animal Joy*), a trek over glacial peaks ("The Snow Leopard," *Rook*), or a passage through the Strait of Magellan ("Castaways," *The Golden Archipelago*). Without the visual and poetic appeal of its own music, all Shearwater has to offer is a pretty voice.

Shearwater would have been better off storing *Fellow Travelers* away until its next solo album was finished. This throwaway LP ruins the momentum it had carefully built up over the past decade; hopefully, the band's next venture can put it back on track.

Evan Kahn | Copy Manager

Lead singer Jonathan Meiburg lends a beautiful voice to an otherwise unremarkable release.

Advice for awkward people

About print quota and Thanksgiving travel

Hey Ryan and Matt, I was bolting to the printer in Baker yesterday so I could turn in my paper for my next class when I saw this student hanging out in front of the printer just losing it. There was about a book and a half's worth of printed pages in the tray, and tears were just streaming down her face. I felt sorry for her but I didn't want to intrude; I just wanted to get my paper and get to class. Am I a bad person for not showing some kind of caring or concern?

Printing Reaction Is Not Totally Qool, Unusually Odious Tryst Arises

Dear PRINT QUOTA,
We recommend against worrying about the printers too much; they take all kinds of abuse throughout the semester. Matt has been known to shout obscenities and kick the printers. Besides, Carnegie Mellon gives students \$40 worth of print quota; the printers should be designed to handle that kind of abuse. As for the person crying in front of the printer, she's probably printing off all of Blackboard ahead of Thanksgiving break so she can get a jump on studying for finals. We all do it at one point in the semester, mostly to use up that \$40 of printing allotment. We're sure she broke down because it finally occurred to her how much she needs to study for finals.

Or maybe she just feels guilty for printing one-sided pages, Matt & Ryan

Matt and Ryan, I'm heading home this Tuesday for Thanksgiving and I was wondering if you have any travel advice for me. I want to make sure I make it home in time for food and, more importantly, sleep. I've never traveled on my own before, so any words of wisdom are appreciated!

Thanks, Scared Of Vehicular Escape, Really Young Traveler Is Readily Eagerly Departing

Dear SO VERY TIRED,
Well, since you didn't mention how you're getting home, we'll have to cover all methods of transport.

A general rule of thumb is to leave earlier than you think you need to. Whether you're driving, flying, or taking a bus or train, you should get out the door sooner than you think you need to. Especially the week of Thanksgiving. Again, *especially the week of Thanksgiving*. You know who is going to be on the road? Everyone else in the United States. Your peers, your teachers, your RAs, and everyone else will be conducting a mass exodus from campus starting around noon on Tuesday. You will be but a speck in an ocean of people who want to get home just as much as you do. The line at the bus stop at Forbes and Morewood Avenues is ridiculous. Spend the night there if you have to.

Good luck. You'll need it, Ryan & Matt

Need advice? Send queries to advice@thetartan.org.

Doctor Who celebrates series anniversary

The British television favorite commemorates success of the franchise in classic style

Warning: This article contains spoilers for The Day of the Doctor.

Fifty years of traveling through time and space culminated in a celebration last Saturday for the man known only as the Doctor.

The British television classic *Doctor Who* celebrated its golden anniversary with a week of interviews, behind-the-scenes specials, a TV movie, and a Google doodle, all leading up to the 50th-anniversary special *The Day of the Doctor* in the world's largest simulcast of a TV drama.

The special saw the convergence of three regenerations of the Doctor: the current 11th (Matt Smith), the 10th (David Tennant), and the newly discovered "lost" regeneration (John Hurt). They join together to stop the Zygons, a shape-shifting alien race from the show's past, as they try to invade Earth to replace their home planet, which was destroyed at the very beginning of the legendary Time War.

The Zygon invasion is only the secondary plot, however, as Hurt's lost Doctor must face the choice that forever changes the man he will come to be. He must choose to either use the catastrophic device known as The Moment, destroying his race and ending the Time War, or allow the war to continue ravaging the universe.

The Moment has a mind of its own, as it made itself known in the form of former companion Rose Tyler (Billie Piper), also known as the Bad Wolf. She facilitates the reunion of Doctor regenerations to show what the man will become because of the choice he makes.

Filled with throwbacks to the very beginning of the show, the episode perfectly encapsulates what makes *Doctor Who* so timeless. There are moments of humor, especially interactions between the Doctors, and moments of poignancy, as the elder regenerations reflect on the horrifying decision the Doctor had made 400 years before.

Among the familiar faces present in the episode, Hurt stands out. His characterization of the Doctor as a crotchety old man is the perfect foil to the childlike natures of his later selves. The only disappointment is that this episode is all we have of the War Doctor, as he was called in the minisode prequel released earlier last week.

In the end, all three Doctors — with a push from impossible current companion Clara Oswald (Jenna Coleman) — choose not to change history: Together they have the time and power to save their home planet of Gallifrey and all its inhabitants, which forces their enemy, the Daleks, to destroy themselves by accident. All 13 incarnations of the Doctor work together to freeze

Gallifrey in a moment of time using Timelord technology. The result is something that looks like a 3-D painting, which ends up in London's National Gallery.

The sequence showing the Doctors working together to save Gallifrey includes some major surprises, as quick shots of the ninth (Christopher Eccleston) and newly announced 12th (Peter Capaldi) indicate that every single incarnation of the Doctor is in attendance.

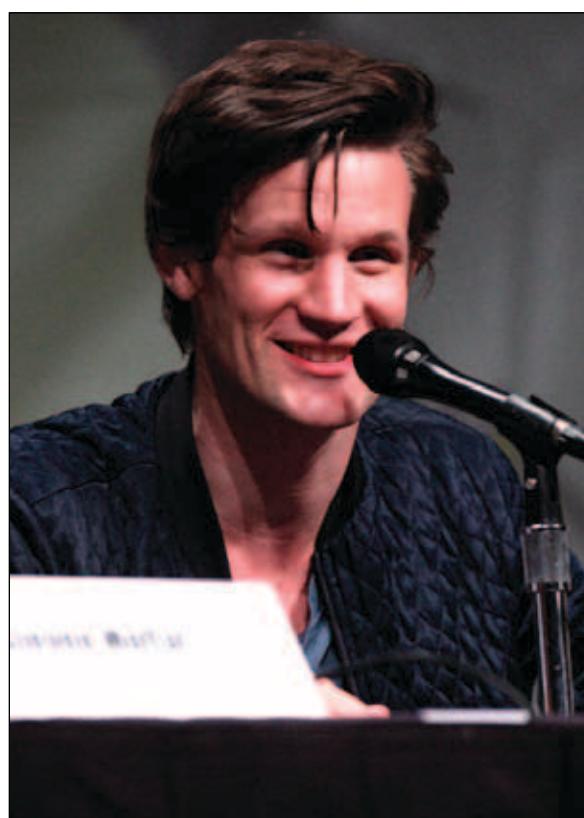
Compared to the narrative mess that was seasons five and six, showrunner Steven Moffat creates a story that feels complete, while still setting up for the future. The episode is filled with the essence of what *Doctor Who* is, but it's the final minutes that just about sum up the storied history of the show and give it a push toward the future. Fifth Doctor Tom Baker makes the final surprise, showing up as the curator of the National Gallery and urging the 11th Doctor to search for Gallifrey.

The final shot shows all versions of the Doctor standing together, punctuating the episode with the memory of those lost and hinting at future excitement. It's a beautiful ending to the celebration of a show infused with hope that has inspired the world for 50 years and will surely continue to do so for many more to come.

Mairéad Pettit | Staffwriter



Courtesy of Wikimedia Commons



Courtesy of Wikimedia Commons



Courtesy of Wikimedia Commons

In the Doctor Who anniversary special, actors David Tennant (left), Matt Smith (center), and John Hurt (above) came together as the 10th, 11th, and new-found "lost" regenerations of the Doctor, respectively.



Craft fair promotes homespun holiday gifts

Pittsburgh-based I Made It! Market provides exposure for local businesses and artists

With the holiday shopping season just around the corner, a bubbling craft market set up shop Friday and Saturday afternoon in the Waterfront's shopping district.

Eighty artists, crafters, and designers filled two vacant retail storefronts with beautiful jewelry, pottery, all-natural soaps and scents, cozy knitted hats, original artwork and prints, adorable baby clothes, toys, and everything in between. The event drew a large crowd of eager shoppers, many of them families with babies in tow, to find special gifts for loved ones — and to try to resist buying too much for themselves.

Ensuring that nobody went hungry, My Goodies Bakery enticed shoppers with vegan and gluten-free baked goods, a stop by Aunt Carol's Gourmet Dips allowed for plenty samples of tasty dips, and The Sweet Spot came equipped with chocolate to make everything better.

A number of artisans had Pittsburgh-specific products, such as Chuck Beard's "Abandoned Pittsburgh" photography focusing on old mills and buildings, Carol Skingers's prints and tiles of a map of Schenley Park, and city-inspired T-shirts by Steel City Cotton Works.

The pop-up craft event was organized by I Made It! Market (IMI), a Pittsburgh-based indie-craft marketplace. Self-described as "a fantastical, nomadic, pop up handmade shopping place," IMI's main mission is to create opportunities for Pittsburgh's artisan community to sell its wares to the public. In the process, the organization aims to create a more cohesive community of crafters that mobilizes to create real change in Pittsburgh through craft.

I Made It! Market is organized largely by business development and communications guru Carrie Nardini, as well as Carnegie Mellon alumna Nina Marie Barbuto (CFA '06), who co-founded IMI with Nardini back in 2006. Nardini, who holds a master's in business and a B.A. in English from the University of Pittsburgh, saw



Sarah Moss-Horwitz | Junior Photographer

Waterfront shoppers were treated to a varied selection of items from local businesses and artists to give their holiday shopping a unique flavor.

a need for business development resources for the increasing number of Pittsburgh artisans and crafters.

The movement toward self-sustaining local economies rather than multinational businesses is not a new one, but it has gained support and fresh energy in the last decade with a renewed national focus on local businesses and the emergence of e-commerce sites such as Etsy, an online craft marketplace that facilitates a direct customer-artist relationship. Although there is growing interest in handmade works, small businesses and artisans still have extreme difficulty competing in the mainstream marketplace in large part because they can't compete against mass-produced price deflation. In addition, many one-man businesses have limited resources to market themselves to a large audience.

IMI allows businesses to get around these obstacles by effectively doing the media, publicity, and organizational aspects of putting on an event to draw shoppers. As a result, a growing movement of entrepreneurial artists and crafters has quietly developed into a uniquely well-organized community in Pittsburgh.

The pop-up craft market offered Waterfront shoppers a wealth of homemade gifts for the upcoming holiday season.

Crucial to the market's success has been its collaborative attitude in building relationships with other nonprofits in Pittsburgh — such as the Three Rivers Arts Festival, The Children's Museum of Pittsburgh, Cotton Factory, and Southside Works — which allows IMI to connect with the Pittsburgh community and draw in a wider net of customers. In addition to putting on craft shows, IMI works with small creative businesses that need help marketing their ideas, making websites, and promoting themselves. IMI also collaborates with groups interested in hosting their own craft fairs by bringing in artists and organizing the events. Workshops are available for people of all ages.

With the madness of Black Friday just around the corner, a focus on buying local handmade gifts this year is refreshing. In a society too often overcome by cheap trends, craft shows remind us of the innate value of a product made with care. The artisan quality, the thought that goes into every last detail, and the personal connection you can get when buying a handmade item is worth the extra few dollars.

If you're interested in learning more about I Made It! Market, check out its website at imadeitmarket.com and come out to the next craft fair on Dec. 15, "Last Minute Shopping at The Boyd Community Center."

Sarah Moss-Horwitz | Staffwriter



Sarah Moss-Horwitz | Junior Photographer

Ten points for *Potted Potter* production

Clarkson and Turner bring Quidditch and improvised comedy to the Pittsburgh stage

Imagine seeing the entire saga of *Harry Potter* in a hilarious, 70-minute performance with only two actors. It sounds impossible without Hermione's Time-Turner. However, the muggle production *Potted Potter — The Unauthorized Harry Experience — A Parody by Dan and Jeff*, which played at Pittsburgh's Byham Theater from last Wednesday to Sunday, did just that.

Writers Daniel Clarkson and Jeff Turner originally came up with the idea for the show in 2005 when they were asked to create a performance to entertain the crowds of eager fans awaiting the midnight release of the sixth book in the series, *Harry Potter and the Half-Blood Prince*. Clarkson and Turner's show related the first five books in five minutes. A year later, the show grew to an hour in length, and eventually included all seven books in the performance henceforth known as *Potted Potter*.

Delme Thomas, who plays every character in the show except for Harry (and even puts on the glasses occasionally), said the show has been an unexpected turn for him. After his agent found the audition, he said, "I auditioned for the piece and I actually didn't think I was going to get it."

Thomas has been a Harry Potter fan since he picked up the first book shortly after the first two had been

released. "It was the only book in the shop that looked fairly interesting and I got hooked on it from that," he said. Now not only an avid fan and a Hufflepuff according to *Pottermore.com*'s official test, Thomas shifts roles from Hermione Granger to Professor Snape to He-Who-Must-Not-Be-Named.

"It's always fun to play the baddies," Thomas said. "The goodies are rubbish." He has been playing both types of roles in eight weekly shows every week since March when he started the tour in London.

"The good thing about the show," Thomas said, "is it's a comedy improv show, so you take what you get and roll with it." According to him, 70 percent of the show is scripted. Thomas and his counterpart, James Percy (who plays Harry for the majority of the show), improvise the other 30 percent.

The two make an excellent pair onstage. Thomas's contagious enthusiasm and physical humor are balanced out by Percy's dry wit and adherence to the story line. Percy moves the story along while Thomas keeps the audience engaged, constantly eliciting applause, cheers, chants, and jeers throughout the show.

The improvised parts were easy to identify as unscripted

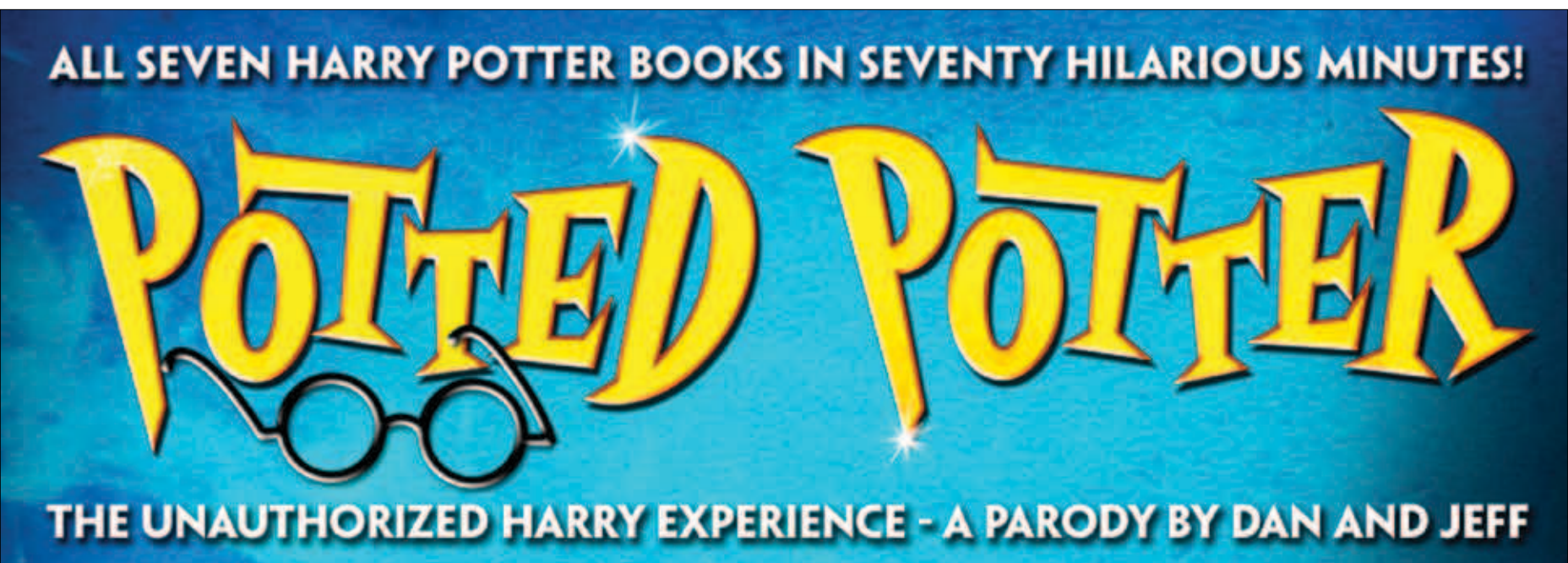
because they occasionally even sent the actors into fits of laughter. "We usually try to make each other laugh as much as possible," Thomas said. "We're very professional. It's the classic two-man comedy."

Thomas said the most fun part of the show for him was when he engaged the audience in a game of Quidditch. "It's my moment where I really interact with the audience," he said.

This version of Quidditch requires less flying on brooms and avoiding bludgers, however, and more bouncing a beach ball between audience members and trying to get it through a lit up hoop while two children (volunteers from the audience) chase the "golden snitch" (Percy in a ridiculous costume) around the stage. It was quite a sight to see grown adults laughing, cheering, and chanting "Gryffindor" or "Slytherin" while whacking a beach ball across an auditorium.

Overall, *Potted Potter* was a magical experience that muggles, squibs, wizards, witches, members of the Order, and Death Eaters alike could enjoy together. For more information, visit www.pottedpotter.com.

Jenna Bodnar | Junior Staffwriter



Screenshot courtesy of pottedpotter.com

Potted Potter — The Unauthorized Harry Experience — A Parody by Dan and Jeff played for Pittsburgh audiences at the Byham Theater last Wednesday through Sunday.



Who needs family when you have TV?

Broadchurch, *Sherlock*, and *Scandal* are among the shows to catch up on over break

The holiday season is fast approaching, with Thanksgiving this week and winter break just around the corner. We're all ready for some time away from problem sets and papers — but as wonderful as it sounds, you can't spend the entire break sleeping. So give your mind a break and treat yourself to one of technology's greatest gifts: the TV marathon binge.

But what should you watch? Luckily, I spent the semester staying caught up, just so you can reap the benefits. Check out some of these shows to beat your winter blues.

American Horror Story: Coven

FX

The third season of this show is all about witches. New Orleans sets a luscious cultural backdrop to a story full of witchy teenagers, immortality, and the struggles of life and power. While this installment isn't as overtly frightening as the first two, it has that spooky tension that arises when things go bump in the night. While you're at it, go ahead and watch or rewatch the first two seasons, because why not?

Pretty Little Liars

ABC Family

What better way to relax than by torturing your mind with crazy plot twists and turns, only some of which could have been thoroughly thought out? *Pretty Little Liars* is the perfect combination of a crazy murder mystery and vapid teenage show, the likes of which can only be found on ABC Family. Since the show comes back in January, why not get caught up now while you've actually got the time?

Sherlock

PBS

If you haven't seen all six episodes of this modern-day TV adaptation of *Sherlock Holmes*, you're doing something wrong. Each episode clocks in at about 90 minutes, making it perfect TV fare for a night in from the cold weather (or the sunny California weather, if you're one of those people). The highly anticipated third season makes its stateside debut in January, so start watching now and throw your theories about the show's return into the ring. If you're really into Holmes adaptations, also check out CBS's *Elementary*. Gender-swapped Watson is a true gift to television and its Holmes/Watson relationship is one of the sassiest around.

Benedict Cumberbatch will return as Sherlock in the BBC's adaptation of the classic book series.

Parenthood

NBC

If you want a show that will leave you an ugly sobbing mess at the end of almost every episode, then check out this family drama. So much happens every season, it's almost like *Degrassi* for adults. Seriously, if you don't cry at least three times per season, you might be an actual robot. Plus, it's currently in its fifth season, so there's plenty to binge on.

Reign

The CW

Don't be upset if you start *Reign* expecting a show that's accountable to reality or that features less-than-stunning people; it's on The CW, so clearly you'd be out of luck. But if you can look past glaring historical inaccuracies and frankly ridiculous love triangles, *Reign* is the kind of brainless, beautiful fun that's been missing on TV since *Gossip Girl* ended. Beware, though: *Reign* only just started its first season in October, so you might get crazily addicted and then run out of episodes to watch.

Scandal

ABC

If you think of binging as watching one, maybe two episodes at a time, then a) you're doing it wrong; and b) you don't watch *Scandal*. There's a twist in just about every episode, which makes it supremely addictive. If you can stand to watch fewer than five episodes in one sitting then you deserve an award. This season has been especially juicy and makes all the drama of the first two seem like child's play. If you finish *Scandal* and are looking for more of that presidential/political drama, check out *The West Wing*. It's an oldie, but a goodie.

Parks and Recreation

NBC

The first season is kind of rough, but *Parks and Rec* hit its stride in the second season and is now one of the best comedies on TV. Amy Poehler is entertaining as Leslie Knope, but the motley crew from Pawnee, Ind., is what really makes this show comedy gold. Who would have thought that the ins and outs of a small-town parks and recreation department could be so much fun? NBC excels at creating strong ensemble casts, so check out Poehler's partner-in-crime Tina Fey in *30 Rock* or Steve Carell in *The Office* for more workplace fun.

Veronica Mars

The CW

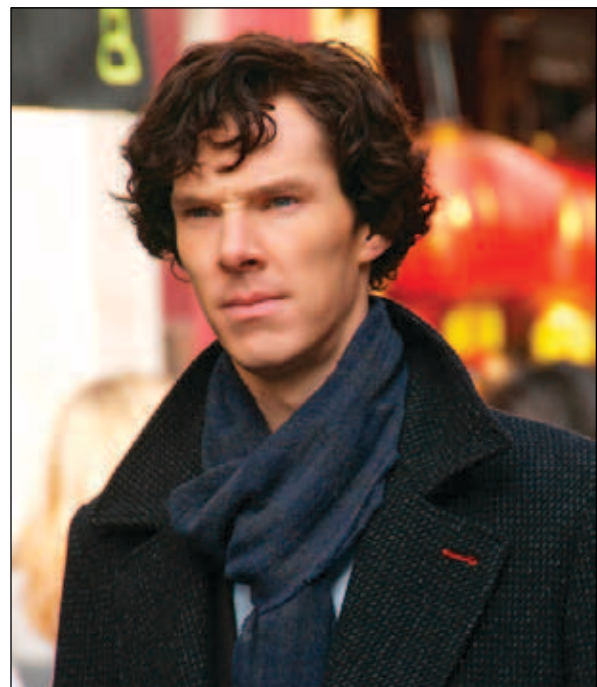
Veronica Mars is a modern-day Nancy Drew, kicking butt and taking names as she works to solve her best friend's murder and various small-time crimes in her hometown of Neptune, Calif., even while she navigates the shark-infested waters of dating the 1 percent. She's exactly who you wish you were deep down inside. You'll laugh, you'll cry, and you'll cheer on Veronica as she does her thing as basically the coolest person ever. Watch all three seasons and then get ready for the fan-funded movie, coming next spring.

Broadchurch

BBC America

This is the most serious binge-watch suggestion. *Broadchurch* started airing right at the beginning of the semester, so you might have missed it. The eight-episode first season follows an investigation into the murder of a young boy in a small, rural town in England. It gets pretty heavy at times and is incredibly emotional, so keep the tissues handy. Well acted and powerful, *Broadchurch* is something you do not want to miss. If you're into BBC America and want something a little less emotionally charged, *Orphan Black* was the standout hit from the network this year, and both shows have been renewed for a second season.

Mairéad Pettit | Staffwriter



Courtesy of Wikimedia Commons

Bhangra in the Burgh fuses modern styles with traditional dance

Eight competitive teams perform at Oakland’s Soldiers & Sailors Memorial Hall as part of the seventh annual cultural event

by **Kelsey Scott** | Operations Manaager

The seventh annual Bhangra in the Burgh (BIB) competition was held at Soldiers & Sailors Memorial Hall last Saturday night. Although only seven years old, BIB has consistently brought together some of the best Bhangra teams in the North America and has sold out multiple shows.

“It was obviously a really fun show,” said Pranita Ramakrishnan, sophomore information systems major and BIB co-chair. Aside from the flashy dancing, however, the co-chairs were all most excited about getting the community involved in and excited about Bhangra, a dance style for which they all share passion.

This year’s competition differed from previous ones in that it was promoted accessibly all over campus. “Before the show we tried to make the PR really fun,” Ramakrishnan said. Anyone who walked past Doherty Hall the weeks preceding the show can attest to the energetic music that blasted while committee members sold tickets for both the event and the after-party.

This year, the committee also welcomed Indian emcee Jus Reign, a famous Punjabi comedian and YouTube sensation. As host for the show, Jus Reign kept the fun alive between sets as he held “impromptu” Skype video calls with his brother and joked about the lack of white people in the audience.

On Saturday, Pittsburgh welcomed eight competitive teams: the University of California, Berkeley’s Bhangra team (Cal Bhangra), Columbia University’s Bhangra team (Columbia Bhangra), Cornell University’s Bhangra team (Cornell Bhangra), First Class Bhangra (FCB), George Mason University’s Bhangra team (GMU Bhangra),

Shaan Mutiyaaran Di Bhangra Club, the University of Virgina’s Di Shaan, and Virginia Commonwealth University’s Bhangra team (VCU Bhangra). Also featured were five local exhibition acts: Carnegie Mellon University’s Chak de Bhangra, the University of Pennsylvania’s Penn Masti, the University of Pittsburgh’s PantheRaas, Carnegie Mellon’s Deewane, and Carnegie Mellon’s Soulstylz.

Maintaining its roots in Punjabi folk dancing, modern Bhangra has been transformed into a lively dance style that hints at hip-hop and other modern influences. The teams performing last Saturday all put on technically stunning performances, the main discrepancies between the acts being the level of modern influence.

Columbia Bhangra started the night off strong. The group put on one of the more modernized performances and was able to energize the crowd, setting a good vibe for the rest of the night.

Crowd favorite FCB, an all-male Pittsburgh-area Bhangra group, brought a similarly modernized performance, easily the most dynamic and energetic performance of the night. The energy was evident before the dance even started; the dancers pumped up the audience by jumping excitedly up and down as they took the stage in dim lighting. The crowd cheered continuously throughout the performance.

The last competitive team to take the stage, UVA Di Shaan, ended the competition with another high-energy dance with obvious modern influence. Their performance started off with the most exciting light show of the night with rainbow colors flashing along with the beat. The fun didn’t end there, however: The performance was once again on the less traditional side, infusing techno music and hard-hitting hip-hop moves,

and the choreography was both technically challenging and engaging for the audience.

Emphasizing one of the modern styles that has had a great impact on Bhangra, Carnegie Mellon’s elite hip-hop team Soulstylz also made an appearance. Although not so flashy and colorful as the Bhangra dances, Soulstylz provided a refreshing and creative set that left the audience wanting to dance along.

Cornell Bhangra, who placed second at last year’s Bhangra in the Burgh, came out with choreography that had moments of obvious modern influence balanced with a traditional overall feel. Cornell boasts one of the oldest Bhangra teams that competed, and the members’ experience was very obvious. The performance brought the night’s energy to a whole new level and the crowd roared before the dancers even took the stage. Their timing was impeccable; they truly danced as one cohesive group.

VCU Bhangra, a newcomer to the BIB stage, performed a similarly balanced dance. The team’s set, with its relevance and synchronization, produced a comparably great crowd reaction.

Another exhibition act, Penn Masti broke up the final run of Bhangra performances with its South Asian jazz fusion-styled performance. Their choreography was technical and captivating, at times very sexy and other times emulating a traditional folk dance.

Also demonstrating the influence modern culture has had on tradition, Deewane — Carnegie Mellon’s all-male South Asian fusion a cappella group — performed a short set. The team offered a captivating mash-up of a traditional song and an instantly recognizable ’90s hit — the Backstreet Boys’ “I Want It That Way.”

Performing directly after Columbia, GMU Bhangra’s performance was starkly more traditional. They were the first performance group of the night to bring a dholi, a performer who plays a traditional Punjabi drum, into the mix.

SMD Bhangra Club, the only all-female performance of the night, also came out strong and performed its traditional piece with the most excited and passionate faces seen at the competition. The dance’s musicality was nearly unmatched in the competition.

Last year’s BIB champion, Cal Bhangra, kicked off the second half of the show with an analogous musically conscious and highly entertaining performance. Although it didn’t receive the same roaring applause as last year, crowd members happily watched the heartwarming performance with bellies full of samosas.

A performance by Pitt’s PantheRaas continued the theme of traditional Indian dance, but broke up the Bhangra flow with a Garba-Raas styled dance. Garba and Raas are both traditional Indian dances from the Gujjarat and Vrindavan regions of India respectively. Their performance included similarly ostentatious costumes and the dancing had some similarities to Bhangra, but it brought a distinct Indian flair to the night.

While the scores were still being tallied backstage, Carnegie Mellon’s Chak de Bhangra took the stage as many of the performers’ peers cheered them on from the audience. At the end of the performance, the entire Chak de Bhangra family stormed the stage, marking the peak of the night’s energy level.

After the Carnegie Mellon performance, much of the crowd began to file out while the judges were still deliberating. When the awards were finally presented, crowd favorite FCB took first place followed by Cornell Bhangra, the runner-up from last year’s competition. GMU Bhangra secured third place.

Clearly there was no favored balance of tradition and modern influence when it came to the judging perspective, with a modern, mixed, and traditional team claiming each of the top spots respectively. The night featured a great blend of traditional culture and modern fun, creating a strikingly colorful, energetic, and musical experience.

A hip-hop performance by Soulstylz (top left) broke with tradition, while the Pitt PantheRaas (top right) performed a more conventional dance. Carnegie Mellon’s team (center and bottom) danced to cheers from the audience while the judges tallied the votes.



Jason Chen | Staff Photographer



Jason Chen | Staff Photographer



Kelsey Scott | Operations Manager



Kelsey Scott | Operations Manager



Music video transforms Dylan classic

Heymann's music video offers interactive elements, artistic innovation, biting commentary

Released on his website last Tuesday, Bob Dylan's "Like a Rolling Stone" finally has an official music video, and there's a good chance that it's like nothing you've ever seen. Instead of being one video, there are 16 independent videos that viewers can actively navigate, each featuring Dylan's song as the soundtrack. The video is meant to simulate the experience of channel surfing, with each video a recreation of standard cable fare with actors lip-syncing the lyrics while acting as one would expect given their respective roles. A news anchor sits at a desk surrounded by computer screens and *Price is Right* contestants spin the big wheel with sparkling numbers. Women from a *Bachelor*-like show claw at each other's hair and the hosts of History Channel's *Pawn Stars* inspect an old guitar and appear to haggle over dollar amounts.

The only thing that appears out of place among these incredibly authentic recreations is that everyone appears to be lip-syncing to "Like a Rolling Stone" without realizing they're singing a song. According to a *Rolling Stone* article, to rehearse scenes, actors would speak authentic dialogue and then the Dylan lyrics would be substituted in at the last minute. For example, the woman hosting a mockup cooking show rehearsed by actually explaining the recipe she is preparing and then replaced the recipe with lyrics once she had mastered how she would explain the recipe. This kind of commitment is evident across every channel and the effect is incredibly surreal, especially when placed in particular contexts such as a reporter covering a resurgence in the Occupy protests and a mockup of the Home Shopping Network. The transition from channel to channel is incredibly seamless, with the actors' mouths always picking up exactly where the last channel left off in the song.

Directed by 27-year-old Vania Heymann, the music video is both a technological and artistic achievement. The available channels are carefully selected as subjects to be indicted by the song's contempt. Flipping through, one begins to garner a sense that nearly everything that makes up and defines Western civilization is indicative of cultural regression instead of progression. Our cultural leaders — everyone from politicians to rap stars — are like actors that are reading a bad script. The music video puts these actors up on a stage and throws vegetables at them, with the channel depicting Dylan himself playing the song in 1965 the only one worthy of applause.

Bob Dylan's "Like a Rolling Stone" — one of many of his songs jockeying for the position of his "signature tune" — was already on the cutting edge when it was originally released 48 years ago, when Dylan, the hero of the traditional folk scene of the early '60s, used it to shatter his previous public image. The hard snap of Bobby Gregg's drum kit combined with Mike Bloomfield's stinging blues guitar is a killer sound, but was only made possible by breaking the ultimate commandment of folk music: playing electric instruments. Bob Dylan bridged the gap between folk and blues and thus changed American popular music for the better by breaking the rules and adapting to the new technologies available to musicians. The music video is a testament to the song's innovative spirit, and proof that it's still just as relevant in 2013 as it was in 1965.

Music videos have come a long way during their relatively short existence. On Aug. 1, 1981, the TV channel MTV debuted, forever changing how we interact with music. At first artists opposed this idea, believing their popularity would be based more on how good they looked in front of the camera instead of their



Screenshot courtesy of video.bobdylan.com

The opening frame of Heymann's video invites viewers to use the interactive channel-flipping feature.

music. As the medium matured, however, directors began to emerge that could create videos to compliment a song rather than to create entirely new experiences by themselves. Spike Jonze, Samuel Bayer, Hype Williams, Jonathan Dayton, and Valerie Faris all helped elevate the music video to become something more than a marketing tool by creating short films that truly are works of art. See videos for Nirvana, Red Hot Chili Peppers, Kanye West, Beastie Boys, and Arcade Fire as examples of their work. With his video for "Like a Rolling Stone," Vania Heymann has pushed the music video even further and has demonstrated the near-endless possibilities for the form. Now the question is, what comes next?

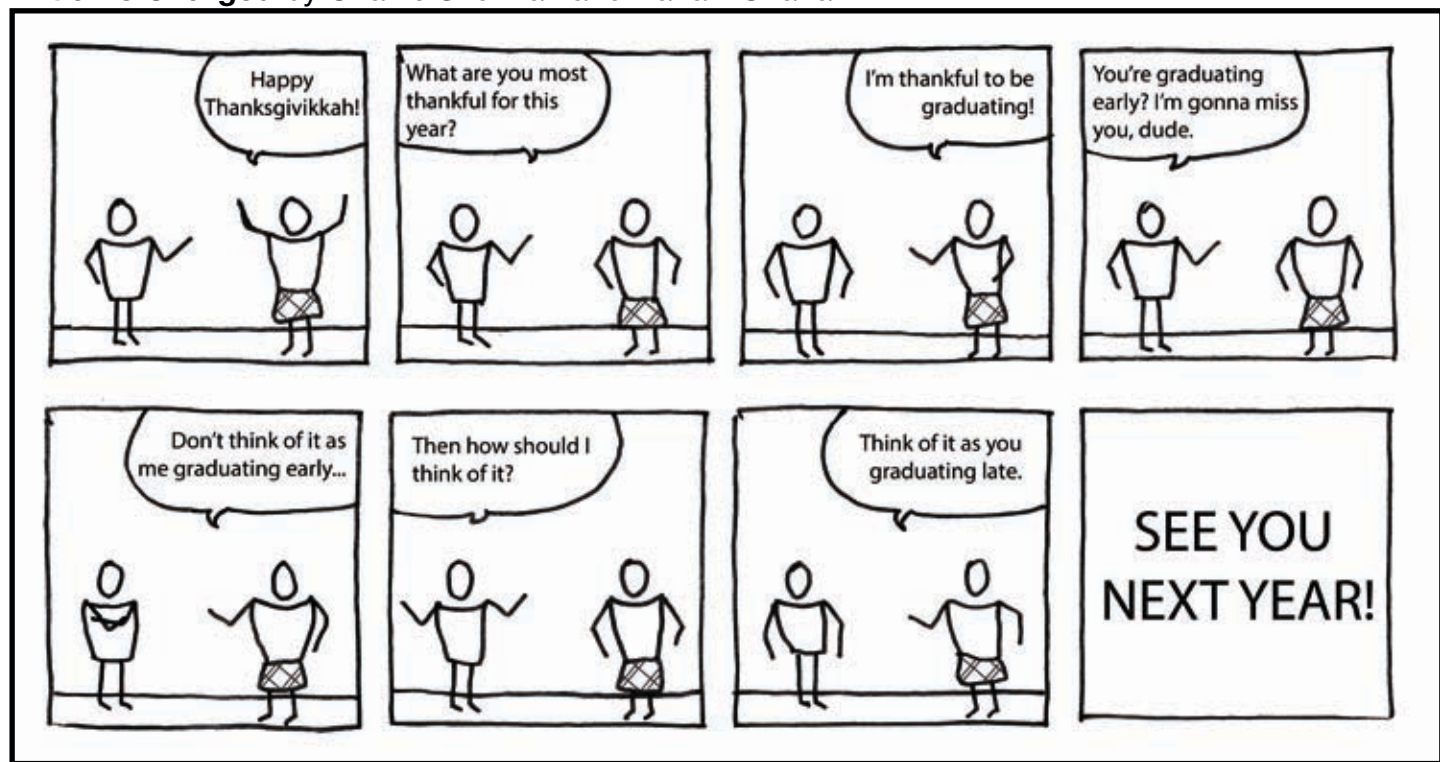
Joey Peiser | Assistant Pillbox Editor



Screenshots courtesy of video.bobdylan.com

The actors in the music video adaptation of Bob Dylan's "Like a Rolling Stone" range from guest experts on the History Channel to contributors on MTV's *Girl Code*.





cshulman@andrew.cmu.edu

Door by Doghouse Diaries





doghousediaries@gmail.com

thedoghousediaries.com

The Modern U.S. Thanksgiving: Getting Back To Our Roots

1621

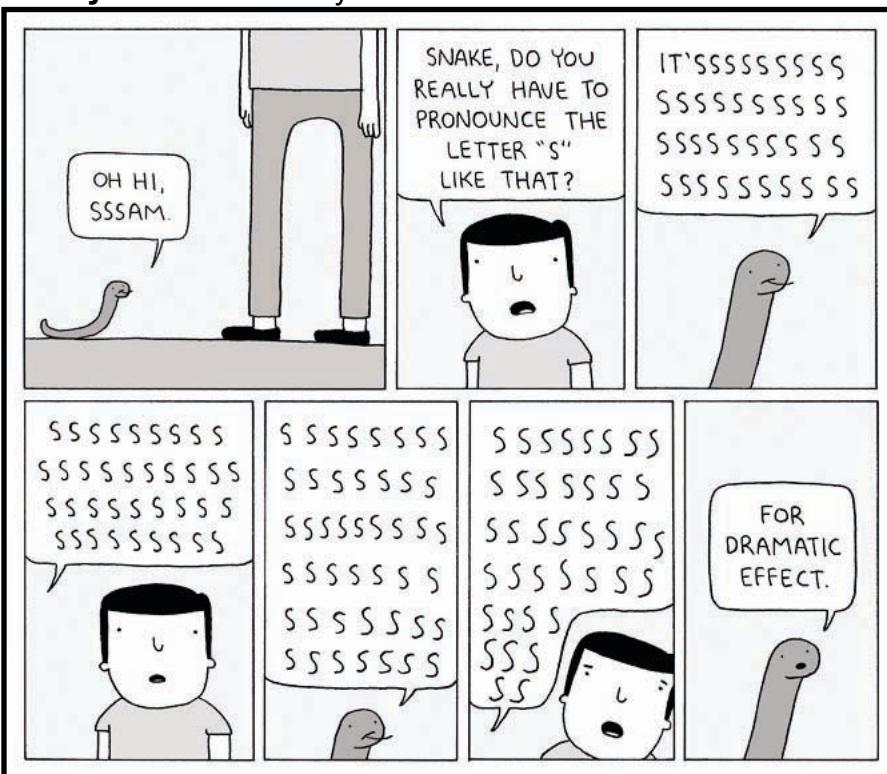
Wednesday	Thursday	Friday
		
War and aggression	Giving thanks and celebrating	

2013

Wednesday	Thursday	Friday
		
	Giving thanks and celebrating	War and aggression

zbauer@andrew.cmu.edu

Poorly Drawn Lines by Reza Farazmand



poorlydrawnlines@gmail.com

poorlydrawnlines.com

Piled Higher and Deeper by Jorge Cham



jorge@phdcomics.com

phdcomics.com

Sudoku Puzzle: Medium Difficulty

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

Sudoku courtesy of
www.opensky.ca/~jdhildeb/software/sudokugen/

Kakuro Puzzle: Easy Difficulty

			3	7			
		3					
		21			28		
	14						16
11			18				
24			11		17		
				11			
	11						
		9					

Kakuro courtesy of www.KrazyDad.com

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

Solutions from Nov. 18

1	IN	RE		1	BO	IL		9	LIL	1
17	NO	OSE		14	15	RANI		16	YM	IR
12	ST	ACY		18	AT	OP		13	SALA	
19	TIN		21	22	ET	CH		23	SH	ORAN
			25		SL	UE		24	IT	ALIC
27	SE	AW	EE		28	NI		29		
31	CUB	IT		32	TAC	TICAL		33		
37	AR	UN		38	DR	INK		39	SORE	
41	NO	TE		42	LESS		43	UT	ILE	
			44		ENV		45	RE	ALT	OR
			47	GO	SS	IP		48	EL	KE
51	TER	ESA		52	ASK	KA		53	IL	K
56	REA	M		57	BA	IO		58	RE	NIN
61	ANN	I		62	LO	LL		63	IT	SME
64	MAT	S		65	EL	SE		66	DONE	

Crossword

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

Easy Difficulty

	10	19	30		22	5	7		
19	2	8	9		7	1	2	4	
25	8	9	5		14	8	3	2	1
		3		5	7	1	6		1
		10		15		6	1	5	
						2	7		2
		13		3				17	5
11	2	1	8		20	3	19	9	3
	5	1	4		13		25	8	1
		4	3	1	13		11	9	2
		12	5	2	4	1		24	8
		19	8	9	2			9	6

Hard Difficulty

Horoscopes

aries

march 21–april 19

Pretending your problems don't exist won't make them go away.

taurus

april 20–may 20

Everyone thinks they know better than everyone else.

gemini

may 21–june 21

All is not lost — just give it time.

cancer

june 22–july 22

Calm down and think about why what you did was important.

leo

july 23–aug. 22

Ever feel like this already happened before?

virgo

aug. 23–sept. 22

Only those who help themselves deserve help from others.

libra

sept. 23–oct. 22

Umbrellas can be useful when it's not raining too.

scorpio

oct. 23–nov. 21

The only way to know for sure is to ask.

sagittarius

nov. 22–dec. 21

You have to make peace with everything that has happened.

capricorn

dec. 22–jan. 19

All of your problems will go away if you just solve one.

aquarius

jan. 20–feb. 18

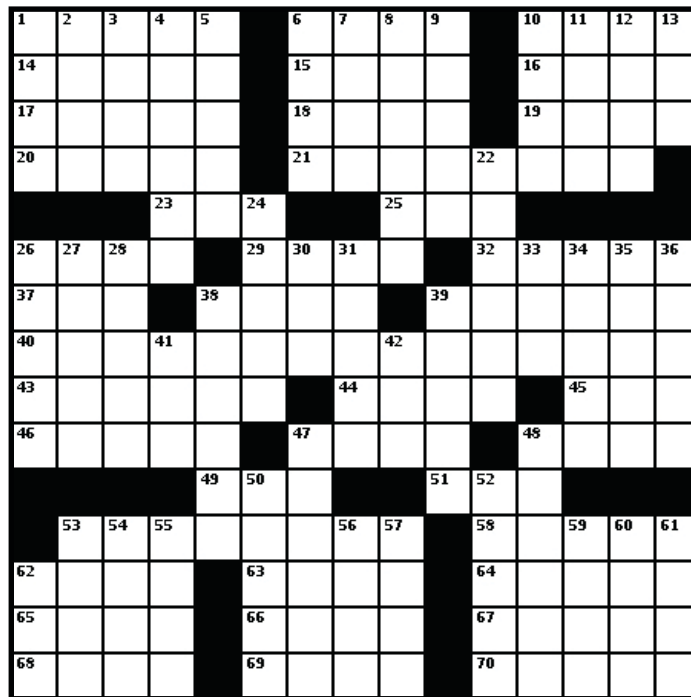
Love your family, for they are the only ones who won't leave you.

pisces

feb. 19–march 20

Life is a miracle — don't take it for granted.

Kairavi Chahal | Comics Editor



Crossword courtesy of *BestCrosswords.com*

ACROSS

- Burdened
- Dollop
- Org.
- Miss by ____
- Mrs. Chaplin
- Scoop holder
- ____ lift?
- Ship's small boat
- Tailless amphibian
- Personal quality of material belonging
- Collecting
- Drunkard
- Rodent, betrayer
- Med school subj.
- Desertlike
- Perfect places
- Explosive sound
- H.S. exam
- Decorative ivy
- In spite of
- Intertwine
- Paul Sorvino's daughter
- This is what eyes do
- Sanctuaries
- Captain of the Nautilus
- Scottish loch, home to a monster!
- Actress Charlotte
- Word used to precede a woman's maiden name
- Never converging or diverging
- Emirate on the Persian Gulf
- Shrivelled, without moisture
- Dept. of Labor division
- Liquid waste component
- Word that can precede hygiene, tradition and agreement.
- It may be happy
- Home ____
- Bell-shaped flower
- No ifs, ____...
- Disinfectant brand

DOWN

- Actress Turner
- Iowa State city
- Meets one's maker
- Firstborn
- Cool!
- Spanish painter
- Rich soil
- Forth
- Light wood
- Broadway opening
- Before long
- Catch
- Actor Beatty
- Breastbones
- Flavor
- Sleep issue
- High times?
- In a fitting way
- Cheering word
- "Who's there?" response
- Family man
- Beethoven dedicatee
- Dressed to the ____
- Wise ones
- Vagabond woman
- Brother of Moses
- ____-Mart
- Russert of "Meet the Press"
- Wrestling hold
- Almost
- Hawaiian greeting
- Peer
- Persian fairy
- Asian sea
- Be dependent
- Israel's Barak
- Metallica drummer Ulrich
- New Mexico art colony
- ____ extra cost
- Spool
- Impresario Hurok



ONGOING

Elf. Benedum Center. Through Dec. 1.

PNC Broadway Across America presents a musical adaptation of the hilarious movie starring Will Ferrell.

Elf tells the story of Buddy, a human adopted by elves who ventures to New York seeking his biological father.

The show opens on Tuesday. For tickets and more information, visit culturaldistrict.org.

14th International Exhibition of Botanical Art & Illustration.

Hunt Institute for Botanical Documentation (Hunt Library, Fifth Floor). Through Dec. 19.

The exhibition will include 41 pieces of artwork by artists representing 10 countries. The Institute established the International series in 1964 with the hope of supporting and encouraging contemporary botanical artists. Every three years, the International series features the works of talented botanical artists from around the world.

Yasumasa Morimura: Theater of the Self.

The Andy Warhol Museum. Through Jan. 12.

In this retrospective exhibit presented by the Andy Warhol Museum, Japanese artist Yasumasa Morimura plays with images of well-known cultural icons, placing his own face over portraits of figures like Marilyn Monroe and Mao Zedong. For more information, visit warhol.org.

Behind Our Scenes. SPACE Galleries. Through Jan. 26. Guest-curated by Carnegie Mellon alumna Jen Saffron (CFA '91) and featuring the work of Carnegie Mellon adjunct professor of history Leo Hsu, *Behind Our Scenes* offers a diverse and thought-provoking exhibition of photographs. Admission to the SPACE galleries is free and open to the public. For more information, visit culturaldistrict.org.

Alien She. Miller Gallery (Purnell Center for the Arts). Through Feb. 16.

This exhibit examines Riot Grrrl, an underground feminist punk rock movement that surfaced in the '90s, and its influence on artists and cultural producers today. For more information, visit millergallery.cfa.cmu.edu.

2013 Carnegie International. Carnegie Museum of Art. Through March 16.

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

UPCOMING

Honeck, Beethoven, & A Waltz Tradition. Heinz Hall. Nov. 29 through Dec. 1.

Pittsburgh Symphony music director Manfred Honeck will lead the orchestra in performances of Strauss, Beethoven, and Suppé. For tickets and more information, visit psoculturaldistrict.org.

The Nutcracker. Benedum Center. Dec. 6 through Dec. 29.

The Pittsburgh Ballet Theatre presents its rendition of the Tchaikovsky holiday classic in a production featuring over 150 performers. For tickets and more information, visit culturaldistrict.org.

Compiled by **Rachel Cohen** | Pillbox Editor

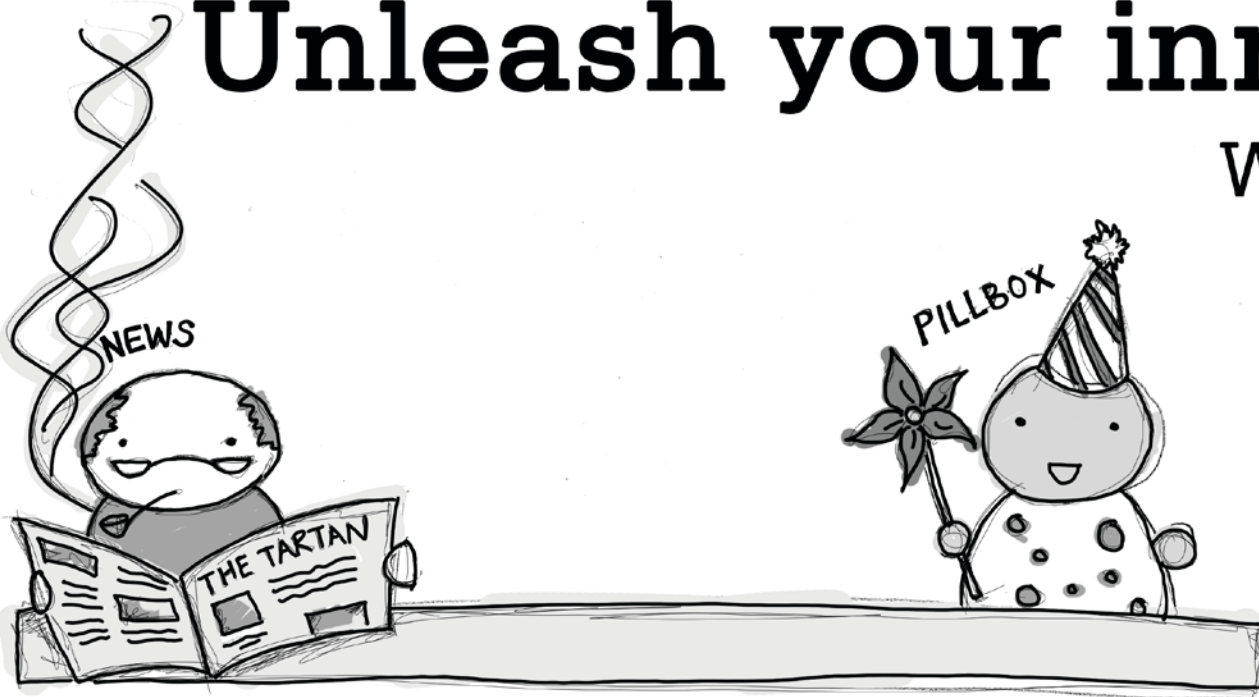
Want your event here?

Email calendar@thetartan.org.

Unleash your inner child

Write for Pillbox

pillbox@thetartan.org



concert.



Michelle Wan | Staff Photographer

AB Underground presented indie rock punk group Smallpools at The Underground yesterday. Consisting of Sean Scanlon on the keyboard, Mike Kamerman on the guitar, Joe Intile on bass, and Beau Kuther on the drums, the four formed Smallpools earlier this year. Their next performance will be with Twenty One Pilots in Washington, D.C. at the 9:30 Club.

