NO CLASSES — CAREER FAIR TODAY!

MIT's Oldest and Largest Newspaper

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The Tech

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Friday, September 20, 2013

WEATHER, p.3

FRI: 76°F | 59°F Sunny

SAT: 75°F | 62°F Mostly sunny

SUN: 72°F | 54°F Showers

AKIMITSU HOGGE—THE TECH

Elizabeth A. Dethy '15 shoots during MIT's field hockey game against Lasell College this Tuesday. MIT won 9-0 and will be playing its first conference game this Saturday at Springfield College.

The expense of career fair

Course 6 brings the cash, gets the booths

By Xin Chen
STAFF REPORTER

Fall Career Fair 2013 will see a skewed distribution of industries: Course 6 again dominates the population, and almost all of the participating companies are for-profit corporate organizations.

The current job market — which already favors tech companies that are looking for computer scientists — may not be the only reason for this imbalance; does the pricey entrance to the MIT's Fall Career Fair also contribute to the lack of balance?

According to the MIT Career Fair 2013 website, the highest level of involvement — platinum sponsorship — costs $18,000. The package offers maximum publicity through a catered information session on campus and publication in the career fair booklet, *The Tech*, web, and Infinite Display. This is followed by Gold, Silver, and Bronze sponsorship which cost $9000, $6000, and $3000 respectively. The lowest level of involvement, Copper sponsorship, which covers only a booth at the second floor of the fair, costs $1250.

These numbers are on the high end when compared to the price of attending career fairs at colleges. For example, a full table at Stanford's Fall Career Fair costs 945 dollars, according to Stanford's Career Development Center. Comparatively, a table at General Interest Career Fair at Princeton costs $550 for corporate organizations, and a table at Harvard's On-Campus Interview Program (OCI) costs $750, still $500 cheaper than MIT's cheapest option.

When looking closer at the distribution of companies, the dominance of private business reflects another lacking presence: very few government and non-profit organizations are attending the career fair.

To encourage recruitment outside the realm of private companies, other colleges intentionally vary the cost of sponsorship depending on the type of organization. For example, Harvard and Princeton offered tables to non-profit employers for $100 and $75 respectively. Half a table at Stanford's Fall Career Fair is $475 for government organizations and $150 for nonprofit organi-

Career Fair, Page 17

Vice President for Human Resources plans to retire

Alison Alden succeeds in making HR processes more transparent, modern in training methods

By Alexandra Delmore

MIT's Vice President for Human Resources Alison Alden has announced her plans to retire in the spring of 2014. Alden began working at MIT in 2007 and has made substantial contributions to MIT's HR department. Israel Ruiz, Executive Vice President and Treasurer, is "grateful to Alison for her seven years of exceptional service to MIT."

When Alden first arrived on MIT's campus, she recognized the importance of developing a full understanding of the faculty and staff.

"The first thing I did was listen to the culture and the people of MIT," said Alden. "I went around campus asking faculty members what they thought MIT needed."

Reaching out to employees has allowed Alden to recognize areas of improvement for MIT's HR department and organize methods to enhance efficiency for the benefit of all employees.

As Vice President for Human Resources, Alden's primary objective was to modernize HR processes. Alden valued providing excellent service to MIT's vast and diverse body of customers, faculty, and staff.

"During her tenure, Alison has made significant contributions to transforming HR practices across campus," said Ruiz. "She has a deep commitment to promoting an open and inclusive environment for all members of our community, and a genuine appreciation for MIT's culture and values."

Under Alden, the HR department launched an initiative to eliminate any and all ambiguity regarding benefits and compensation for employees and retirees. "I wanted to make sure that employees understand their benefits," said Alden, so she optimized this communication process by implementing a routine for which all faculty and staff have access to compensation statements in paper and on-line. Alden also took action to make MIT's retirement plans more cost-effective for the institute while ensuring long-term sustainability for employees. In 2012, she reformed the pension plans for new hires while preserving elements of the program that employees consider valuable, such as the 401(k) plan.

As part of her modernization initiatives, Alden increased the efficiency of the job application and hiring processes. She also implemented new methods to ensure that faculty and staff were trained effectively. "It's important to make sure that managers and supervisors understand their roles," stated Alden.

Looking to the future, Alden notes that modernization and optimization are continuous processes. "There is still modernizing that needs to be done," said Alden. Going forward, she stresses that it is imperative that the HR department continues to maintain a comprehensive relationship with the faculty and staff at MIT. "Listen to the campus," Alden advises, "understand its history and culture; enable the campus, without disrupting it."

Paula Sammarco, Executive Assistant to Alden, said that "Alison will be sadly missed. Under Alden's leadership, we were able to accomplish so much in such a short period of time. HR is now aligned with the goals of the Institute and we are better positioned to meet the needs of

Alden, Page 17

IN SHORT

The Fall Career Fair is today from 10 a.m. to 4 p.m. in the Johnson Athletics Center and Rockwell Cage. Find information about companies at *career-fair.mit.edu*.

Minor completion forms are due today for seniors graduating this term. There is a $50 fee for late submissions.

The September Blood Drive in La Sala ends today. The drive is from 1 p.m. to 6 p.m.

The Costco Shuttle will begin running tomorrow. It will run Saturdays 11 a.m. – 4:30 p.m.

Send news information and tips to *news@tech.mit.edu*.

VP for RD Newton to retire

Secured funding for numerous MIT projects

By Anne Cai
EDITOR IN CHIEF

MIT Vice President for Resource Development Jeffrey L. Newton has decided to retire after seven years in the role, president L. Rafael Reif announced in an email to the MIT community yesterday morning. Newton will continue to serve in an advisory role through January 2014. Kirk Kolenbrander, Vice President and Secretary of the Corporation, will "oversee the day-to-day management and strategic direction of our fundraising operations" while MIT searches for a Newton's successor.

Newton has been instrumental in securing funding for a number of projects over the past seven years, according to the MIT News Office. The funds raised have supported the construction of the Media Lab's E14, the David H. Koch Institute for Integrative Cancer Research, the Sloan building E62, and the David H. Koch Childcare Center (TCC Vassar), as well as the ongoing renovations of Building 2 and Building E52.

Newton also "spearheaded the Campaign for Students," raising $780 million to "support student life and learning at MIT," the MIT News Office wrote. The campaign led to the creation of the undergraduate dorm Maseeh Hall, which opened in August 2011.

In addition to the on-campus projects, Newton launched the Office of Global Initiatives, which primarily manages relationships with "individuals liv-

Newton, Page 16

New restrictions on FSILG roof deck use

On Thursday afternoon, Fraternity, Sorority, and Independent Living Group presidents received an email from Assistant Dean of FSILGs Marlena Martinez-Love, Senior Associate Dean for Students Henry J. Humphreys, and Chair of the Association of Independent Living Groups Steve Baker '84 stating that, effective immediately, the use of all roof decks should cease pending inspections by the presiding city. In addition, all FSILG events may not host no more than three times the legal occupancy listed on their dormitory license until an agreement is reached with the cities on assembly occupancy. These restrictions come on the heels of an MIT freshman falling four stories through a skylight of Phi Sigma Kappa, which was accessible from an uninspected roof deck. (The freshman sustained no life-threatening injuries.)

The email stresses that even if roof decks clear inspections, they will be avail-

Roof decks, Page 14

HOW FAR WOULD YOU GO?

Villeneuve's *Prisoners* asks how far we'd go to protect the ones we love. **ARTS, p. 11**

WHY CAREER FAIR FALLS SHORT

Career Fair does not live up to what MIT's goals should be. **OPINION, p. 4**

SUPPORTING ANIMAL RESEARCH

Scientific discoveries have compensated for the pain. **OPINION, p. 4**

LEARNING FROM THE GOOD LOVE STORIES

College Press Roundtable interviews Joseph Gordon-Levitt. **ARTS, p. 10**

TECHNOLOGY AND PUBLIC ART

Culture Tap, on display until Oct. 18, rethinks the role of technology. **ARTS, p. 12**

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Chinese company shares details of a corruption investigation

HONG KONG — A company listed in Hong Kong that is caught up in a corruption investigation focused on China's biggest state-owned oil conglomerate said Thursday that Chinese investigators had questioned it about projects, seized documents and frozen some bank accounts.

The company, Wison Engineering Services, disclosed the details in an announcement to the Hong Kong Stock Exchange. They are the latest public signs of a spreading corruption inquiry that has brought down one senior Chinese Communist Party official, Jiang Jiemin, and encroached on Zhou Yongkang, the retired head of China's powerful domestic security administration.

"As part of their investigations, the regulatory authorities made enquiries about certain projects" of Wison and its subsidiaries, and have "taken books and records and frozen certain bank accounts," the company said.

Hua Bangsong, the billionaire chairman and founder of Wison, has been helping authorities in China with the investigation, the company said this month. In its latest announcement, Wison said it had been unable to contact Hua, and that Zhao Hongbin, a financial manager of a Wison subsidiary, was also "assisting in the investigation."

—Chris Buckley, The New York Times

Mccain sharply criticizes Putin but says he's pro-Russian

MOSCOW — In a combative essay published Thursday in the online newspaper Pravda, Sen. John McCain, R-Ariz., declared himself to be "pro-Russia" but delivered a blistering attack on President Vladimir Putin, describing him as presiding over a failed petro-state, a quasi-dictator who rules "by corruption, repression and violence."

McCain's article was intended to answer an Op-Ed column by Putin in The New York Times on Sept. 12 that made the case against President Barack Obama's threatened military strike on Syria. Putin's column, in which he presented Russia's position as defending international law and respect for state sovereignty, generated fierce debate, including praise and accusations of hypocrisy.

While Putin's article focused more generally on U.S. foreign policy, McCain, who has long been a sharp critic of the Kremlin, focused squarely on the Russian president. In his introduction, though, he first made an effort to dispel the idea that he is anti-Russia, a perception that is widespread here.

McCain did not make any effort to defend the policies of the United States, but he accused Putin of seeking to shield the regime of President Bashar Assad of Syria.

—David M. Herszenhorn, The New York Times

Merkel faces tough questions in former East Germany

By Alison Smale
THE NEW YORK TIMES

MAGDEBURG, Germany—When Chancellor Angela Merkel made an hourlong campaign stop in this town in the former East Germany this week, Ilse Siegert was determined not to miss her chance.

A descendant of an impoverished noble family who landed here in the chaos of 1945, Siegert, 74, has seen her share of German history. For more than a decade, she has campaigned for better benefits for retirees and others she thinks are not getting their fair share from the German state. So, she said, she buttonholed Merkel as she worked the crowd of about 1,500 on Tuesday and demanded to know what the chancellor planned to do about the issue. Merkel shook her hand and smiled, she said.

"Before the election, they all want to know us," Siegert said. "After the election, no one knows us at all."

She said she might vote for Merkel on Sunday, when the chancellor hopes to win a third term, but was still considering shunning the election altogether.

Merkel, 59, a trained physicist, spent her first 35 years in the Communist East, so she may be considered "one of us" in these parts of Germany by the political and other elites who like to talk, at least publicly, of the blossoming "new states." But she may also have an uphill battle to win over eastern Germans who feel shortchanged by capitalism nearly a quarter-century after the fall of the Berlin Wall.

Parts of the former East, particularly southern regions around Leipzig and Dresden, have flourished. But in places like Magdeburg, a 1,000-year-old town with Germany's oldest Gothic cathedral, a renowned university and some very Soviet-looking buildings that replaced bombed ruins left by the Allies, the present and future look less gleaming.

In more than a dozen conversations a visitor had with older residents at Merkel's campaign stop, at Old Market Square, talk turned quickly to their too-meager pensions, and among younger spectators to their abiding indifference toward the chancellor.

Nigeria's politicians profit from 'industrial scale' oil theft, report says

By Adam Nossiter
THE NEW YORK TIMES

DAKAR, Senegal — Oil is being stolen on an "industrial scale" in Nigeria, the world's 13th-largest producer, and the country's politicians and security officials are among those profiting, according to a new report from a prominent British research group.

Thieves steal an estimated average of 100,000 barrels a day, the report said. Working in elaborate networks and protected by corrupted security officials, they tap into the huge and isolated network of pipes that crisscross the country's swampy southern Niger Delta region.

Much of this oil winds up being exported globally, said the report, released Thursday by the London-based organization Chatham House. The problem has reached such proportions that major oil companies operating in Nigeria have recently complained that theft is cutting significantly into production.

A similar report last year, commissioned by the Nigerian government but largely ignored, said that over the preceding decade, thieves had been stealing 6 percent to 30 percent of the country's daily production.

"Hydrocarbon theft is a major source of loss of revenue to the Federal Republic of Nigeria," said that report, prepared by the country's former top anti-corruption official, Nuhu Ribadu. It described the theft problem then as an "emergency."

There is "theft from tank farms, refinery storage tanks, jetties and ports," according to the Nigerian report. "Officials and private actors disguise theft through manipulation of meters and shipping documents."

McKinsey&Company

Join McKinsey & Company TODAY at the Career Fair! Our application deadline is this weekend!

MIT Career Fair
When: September 20 10:00 AM - 4:00 PM
Where: Room 50-220, 2nd floor, Booths 146 & 147

Business Analyst Application Deadline
When: September 22 at 11:59 PM

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Open to Undergraduate candidates who finish their degree in 2014 and Masters candidates who finished undergrad (or Bachelor's degree equivalent) after July 2010

www.mckinsey.com/careers

Gunman was 'wandering' halls as he shot, FBI chief says

By Michael S. Schmidt
THE NEW YORK TIMES

WASHINGTON — The director of the FBI, James B. Comey, provided Thursday the most up-to-date account of the gunman's rampage at the Washington Navy Yard, saying that he was "hunting people to shoot" as he made his way through the building but did not appear to have targeted a particular person or group of people.

"He emerged from the bathroom a few minutes after 8 with the shotgun and proceeded to almost immediately after coming out of the bathroom to shoot folks on the fourth floor in a way with no discernible pattern," Comey said, referring to the gunman, Aaron Alexis. "And, it appears to me he was wandering the halls and hunting people to shoot."

Comey, who made his statements in an interview with reporters at the FBI's headquarters in Washington, said that Alexis entered the Navy Yard around 8 a.m. Monday and immediately headed to a bathroom on the fourth floor with a bag in his hands.

Moments after entering the bathroom, Alexis exited with the shotgun in his hands. Although the butt and the barrel of the shotgun had been partially sawed off, Comey said he did not know whether Alexis had the shotgun in the bag or had previously hidden it in the bathroom.

Despite previous accounts from law enforcement officials that Alexis fired down on people sitting in an atrium on the third floor of the building, Comey said that there was no evidence that he had done that.

He added: "He shot folks on the fourth floor, the third floor and then went down to the lobby and shot a security guard."

After shooting the security guard, Alexis took the guard's handgun and headed back upstairs, where he continued to shoot people with the shotgun, Comey said. Alexis, who kept some of his ammunition in a pocket of his cargo pants, began using the handgun after he had used all of the shotgun's ammunition.

Comey said that people from different types of backgrounds and parts of the building were shot, leading him and investigators to believe that Alexis may not have been targeting a particular person or group, like co-workers. He said he did not know whether Alexis said anything during his rampage.

Roughly a half-hour after Alexis started shooting, a heavily armed team arrived, Comey said, followed shortly thereafter by a "sustained" exchange of gunfire between them and Alexis before he was killed.

"There is a period of time where he is isolated and pinned down by the responders, but I don't know for sure how long that period is," Comey said.

Comey said there were no indications that Alexis had ties to terrorists or was aided by others.

Although investigators have a better handle on what occurred Monday, based on interviews with victims and video surveillance footage, Comey said the authorities were still trying to determine what set off Alexis' rampage. As part of those efforts, the authorities are examining Alexis' electronic communications.

New Taliban attack reported on Afghan police in remote area

By Rod Nordland
THE NEW YORK TIMES

KABUL, Afghanistan — Taliban insurgents have reportedly captured or killed large numbers of Afghan government forces in the remote and usually quiet northeastern corner of the country for the second time this year, officials said Thursday.

According to Dawlat Mohammad, the governor of Warduj District, insurgents ambushed a police convoy in the district on Wednesday, killing 10 policemen and taking 16 others prisoner.

A text message sent to journalists from a Taliban official claimed that the insurgents had killed 25 policemen and taken 12 prisoner.

But Thursday the spokesman for the Afghan Interior Ministry, Sediq Seddiqi, disputed both the insurgents' claims and those of the Warduj governor, saying no police officers had been captured.

The disputed reports were symptomatic both of an increasing casualty rate among Afghan forces and growing government sensitivity about such information. Last year, Afghan officials reported that Afghan National Army soldiers were being killed at the rate of more than three a day, while deaths of police officers were about six a day, twice as high.

(By comparison, coalition casualties have never reached two a day and are now fewer than one a day).

While hard figures are scarce this year, a number of public comments have suggested a significant increase in casualties on the government side.

This month the newspaper The Guardian quoted Gen. Joseph F. Dunford Jr., the U.S. military commander, as saying that Afghan forces were losing 100 killed a week. "I'm not assuming that those casualties are sustainable," Dunford was reported to have said.

If that trend continued, it would represent a substantial increase over last year's reported 2,970 deaths for Afghan security forces, including both police officers and soldiers.

On July 22, the interior minister, Gen. Ghulam Mujtaba Patang, addressing Parliament during impeachment proceedings against him, defended himself by saying he had been preoccupied with the rising death toll. "From March 21 up to now, I swear to God, 2,748 police have been martyred," he said.

Afghan government officials later disputed Dunford's figures, and Patang's office issued a clarification saying his number referred to wounded as well as dead.

Seddiqi said Thursday that casualty figures had not yet been compiled nationwide so he was not able to give numbers. "I can say there has been a slight increase in the number of casualties," he said.

WORLD &NATION WORLD &NATION WORLD &NATION WORLD &NATION WORLD

Leadership questions plague Britain's Labour Party

LONDON — Ed Miliband, the leader of the opposition Labour Party, appeared to have Prime Minister David Cameron on the ropes. Cameron had just lost a vote in Parliament on a nonbinding motion to consider military action in Syria over chemical weapons, the first time in at least a century that a prime minister had not gotten parliamentary support for war. Cameron threw in the towel.

But Miliband, whose own position on the issue kept shifting, did not seize the moment, neither that night, Aug. 29, nor in the next days. He neither spoke convincingly to the nation about the nature of its alliances, its foreign policy or its values, nor did he attack Cameron effectively for mismanaging the entire issue. Both major party leaders showed themselves unable to master their own restive parties.

After three years as head of Labour, Miliband, 43, has not managed to convince the British public that he is prime ministerial material. Questions about his leadership will hang over his party's annual conference, which begins Sunday.

"He became leader a few months after his party was rejected comprehensively," said Peter Kellner, a political analyst who runs a polling firm, YouGov. "He was a cabinet minister and close to Gordon Brown, so he was implicated in the wider reputation of a government that failed. Any new Labour leader would have trouble combating that."

—Steven Erlanger and Stephen Castle, The New York Times

EU officer killed in Kosovo

PARIS — A Lithuanian customs officer in Kosovo working for a European Union mission there was shot dead Thursday in the Serb-dominated north, European Union officials said.

The European Union mission that oversees judicial affairs in northern Kosovo said in a statement that the shooting took place early Thursday during a routine staff rotation. It said a murder investigation was underway. Bernd Borchardt, head of the mission, called the attack an unequivocal "ambush," said Stojan Pelko, a European Union spokesman.

Pelko said by telephone from Pristina, Kosovo's capital, that six customs officers traveling in two cars were returning from a border crossing when one of the cars was fired on, critically wounding the Lithuanian customs officer. He was dead on arrival at a hospital. Pelko said the other officer in the car, a Czech, had no visible wounds, but had been taken to the hospital.

He said it was not known how many people were involved in the attack and that the area had been sealed by police officers. "We don't know who shot him, and the perpetrator escaped," he said. "We are asking citizens for any information they can provide and we are looking for witnesses."

—Dan Bilefsky, The New York Times

California bill provides reset button for youngsters' online posts

SAN FRANCISCO — Kids. The reckless rants and pictures they post online can often get them in trouble, by compromising their chances of getting into a good college or even landing them in jail.

Now California legislators are trying to solve the problem with the first measure in the country to give minors the legal right to scrub away their online indiscretions. The legislation puts the state in the middle of a turbulent debate over how best to protect children and their privacy on the Internet, and whether states should even be trying to tame the Web.

Critics of an eraser law see pitfalls. They warn that in trying to protect children, the law could unwittingly put them at risk by digging deeper into their personal lives. To comply with the law, for example, companies would have to collect more information about their customers, including whether they are younger than 18 and whether they are in California.

There are also practical concerns. If other states pass similar laws, companies would be forced to devise multiple policies for the underage residents of different states — confusing consumers and creating unwieldy requirements for Web businesses.

—Somini Sengupta, The New York Times

WEATHER

Sunshine continues into early weekend

By Kathryn Materna
STAFF METEOROLOGIST

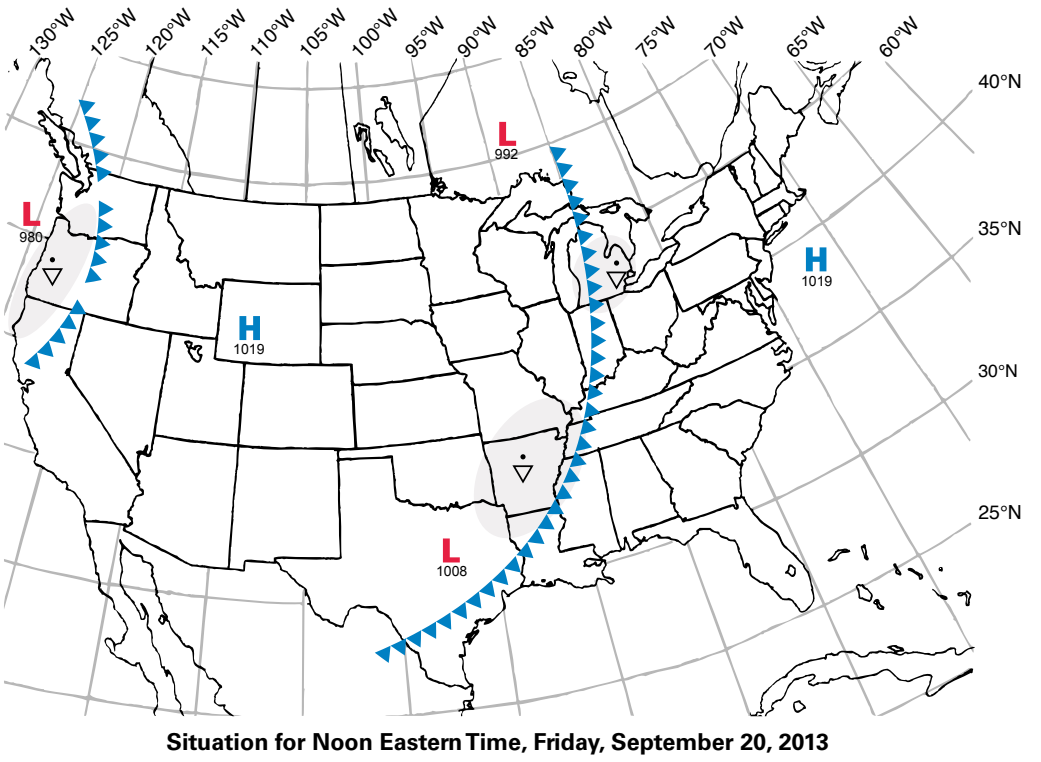
The high pressure system that has brought good weather to our area for the past few days will continue to linger over the East Coast until at least the beginning of the weekend. Today and tomorrow will see clear skies, calm winds, and warm temperatures in the 70s°F, with nighttime lows in the upper 50s°F.

By Sunday, however, a cold front will move in from the west; this system, which is currently moving across the middle of the U.S., will bring some rain and slightly colder temperatures.

Although the 2013 Atlantic hurricane season has been unusually quiet thus far, the Pacific Basin is very active this year. Typhoon Usagi, currently situated northeast of the Philippines, intensified rapidly between Tuesday and today. It is now the strongest storm of 2013, with sustained winds of 160 mph. It reached "super typhoon" status yesterday, which makes it comparable to a Category 5 hurricane. It is forecast to impact southern Taiwan on Saturday, bringing heavy rain and strong winds. It will likely weaken before reaching mainland China on Sunday.

Extended Forecast

Today: Sunny, high 76°F (24°C). Winds from the southeast at 5-10 mph.
Tonight: Clear, low 59°F (15°C). Winds S at 10mph.
Tomorrow: Mostly clear, high 75°F (24°C). South wind of 10mph.
Sunday: Showers possible, highs in the low 70s°F (22°C).



Situation for Noon Eastern Time, Friday, September 20, 2013

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	Trough	Snow / Rain: Showers, Light, Moderate, Heavy	Fog
L Low Pressure	Warm Front		Thunderstorm
Hurricane	Cold Front		Haze
	Stationary Front		Compiled by MIT Meteorology Staff and *The Tech*

OPINION OPINION OPINION

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Why the career fair is a disappointment

Is MIT losing its way in its service to the world?

By Madeline O'Grady
STAFF WRITER

When I applied to MIT in 2012, I pictured a brilliant haven filled with talented, driven, and passionate young people, striving to learn and apply their knowledge to solve the world's greatest problems. Across this square mile of Cambridge, I pictured ten thousand minds working toward global improvement, and an institute that wants nothing more than to see its students facilitate change. At the time, being able to join this community seemed like a remote possibility.

> **The career fair serves as an effort to funnel some of the world's brightest minds into lives of comfort and apathy.**

As a senior in high school, I hoped to study biology because I genuinely cared about learning how the world works; I was fascinated by the way the human body interacts with its surroundings. I figured that of all places, MIT, this grandiose institution for higher learning, could teach me how to solve the problems associated with this delicate symbiosis.

Two years later, I've joined several student groups that are working toward these goals, though they were a challenge to find. During my first semester, I began to grow disheartened because I couldn't find a single group working seriously on climate change. I was both sad and excited to say that such a group (Fossil Free MIT) was founded during my first semester.

A large part of our outreach occurred during orientation, when freshmen are still enthusiastic and open-minded. At the activities midway, I spoke to an upperclassman about climate change, giving her my somewhat impersonal and dry spiel (as I've become jaded after two semesters here). I asked if she was concerned about climate change, to which she replied: "To be honest, not really. I don't really care about anything outside of my immediate universe."

What? You don't care about anything?

How is it possible that at MIT, an institution founded on principles of service and intellectual rigor, there exists a single person who doesn't care about anything outside of his or her own immediate universe? We have all of the potential and resources necessary to change the way the world works. There are so many problems that we have the brains and the willpower to solve — we just need leadership. We need guidance, and currently we are being guided in the wrong direction.

Three weeks after this encounter, nothing has changed. The career fair is approaching, and students are preparing for a day of "opportunity." MIT's Global Education & Career Development center (GECD) is holding extended walk-in hours to help students perfect their résumés and interviewing techniques, their firm handshakes and conversation skills, in order to maximize job offers from companies like BP, Chevron, Quizlet, P&G, Intel, GM, TripAdvisor, and Morgan Stanley. There are daily information sessions with Microsoft, AQR, CRA, and Exxon. MIT's Society of Women Engineers is holding a career fair banquet with opportunities to

O'Grady, Page 5

Facing the Truth: Animal Research

Scientific discoveries have compensated for the pain we impose upon research animals.

By Erika Trent

Almost every MIT student has conducted a scientific experiment on an animal — ranging from dissecting a frog in middle school to studying the behavior of conditionally trained mice in a UROP. At some point, many of us have probably found ourselves questioning the ethics of using animals for research. Though I was vaguely aware of this debate, it wasn't until I took my first Institute lab that I finally understood the purpose of using animals in scientific pursuit.

> **For the first seven weeks of class, I had actively managed to avoid handling the "bloody" parts of the lab.**

By the time I was half-way through 9.02, Systems Neuroscience Laboratory, I had watched dozens of vivacious critters be reduced to lifeless, anesthetized specimen; I witnessed the profusion of two mice; I winced in shock when a guillotine fell on a frog's neck. For the first seven weeks of class, I had actively managed to avoid handling the "bloody" parts of the lab. I observed my TA's, professors and classmates intricately poking needles and digging scalpels into the flesh of lab animals. I, in turn, buried my head in my lab notebook and deliberately looked away from the animals who had given their lives to our experiments.

Much of what we know about biological life has emerged from experiments on animals. In fact, the majority of major medical breakthroughs over the last century wouldn't have happened if not for these animals. Such research has led to the creation of vaccinations against smallpox and tetanus, the development of antibiotics and insulin and the advancement of organ development technology. And that is only scratching the tip of the massive, and continually expanding, iceberg. Yet, I couldn't bring myself to touch the animals at our lab station.

When I turned to my philosophy professor for advice, his words to me were simple: "to live lovingly is to live truthfully." In Gandhi's teachings, he explained, the way to live most lovingly towards all conscious beings is to live with a constant and willful acknowledgement of the truth. Take for example food: we don't actively acknowledge the fact that the chunks of meat on our plate were once a living animal. When shown images of butcheries, we shamefully avert our gaze. To live with firmness in the truth, we are forced to face the truth of its origin.

As I prepared for class one afternoon, I thought, "If I cannot slaughter a cow myself, I can choose to not eat beef." Meat isn't a necessity, and it's not an act that particularly enhances my well-being or aids humanity. But what about the killing of laboratory animals to acquire knowledge — knowledge that can better mankind? When I read textbooks, or attend lectures of neuroscience, I'm overcome by sheer fascination with myriad groundbreaking scientific discoveries; but hardly ever would I stop and think about the lives of rats, mice, cats, chimpanzees and many other species that went into generating each piece of empirical data. It was time, I realized, to stop looking away from the truth.

> **When I collected data from our rat, I was overwhelmed with gratitude toward him.**

I walked into lab that day to see an anesthetized rat lying at our station. It suddenly occurred to me, "for me to truly appreciate the sacrifice this rat was offering us, I had to be the one with the scalpel in hand." To my classmates' surprise, I volunteered to conduct the surgery this time. I made an incision in the rat's head and drilled a hole into his skull. I saw blood stain his pristine fur. I saw chips of his skull fly off. Through the frequent pangs of my heart-wrenching guilt, the truth finally sunk in: this is animal research, and I owe so much of my knowledge to it.

When we actually collected data from

Trent, Page 5

CORRECTIONS

An article in Tuesday's issue about the t=0 entrepreneurship conference incorrectly referred to the organizer as the "Martin Center for Entrepreneurship at MIT." It is the Martin Trust Center for MIT Entrepreneurship.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Sarah Ritter, Editor in Chief Anne Cai, Managing Editor Ian M. Gorodisher, Executive Editor Deborah Chen, and Opinion Editor Jacob London.

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Looking beyond career fair

MIT must empower students to think bigger

O'Grady, from Page 4

network with representatives from L'Oreal, Bank of America, Merrill Lynch, Shell, and Schlumberger.

I've been told by upperclassmen that career fair is an opportunity. Classes are cancelled. There are hundreds of companies. They're waiting for me to come up and talk to them, waiting for me to drop my résumé, waiting for me to apply for an internship. And I need to impress them.

Really, MIT? *We* need to impress *them*?

The career fair serves as an effort to funnel some of the world's brightest minds into lives of comfort and apathy. When did solving the world's problems mean drilling for more oil than we can afford to burn, coding the next "original" iPhone application, designing more products for consumers to purchase, or consulting these companies so that they can make even more money than they already do?

MIT, I thank you for the exceptional and objective education I've received over the past two semesters. But now I need more. I need guidance; I need empowerment and reassurance that despite the current sentiment that finding a "good" job is the most important return from an education, I can still make a difference. I need to know that we are better than Exxon, than TripAdvisor, than P&G, than Quizlet, than BP, than Facebook, than Yelp, and collectively that we have more of a potential to shape the world. I need to know that we are better than career fair.

The ethics behind research on laboratory animals

Scientists must appreciate knowledge gained

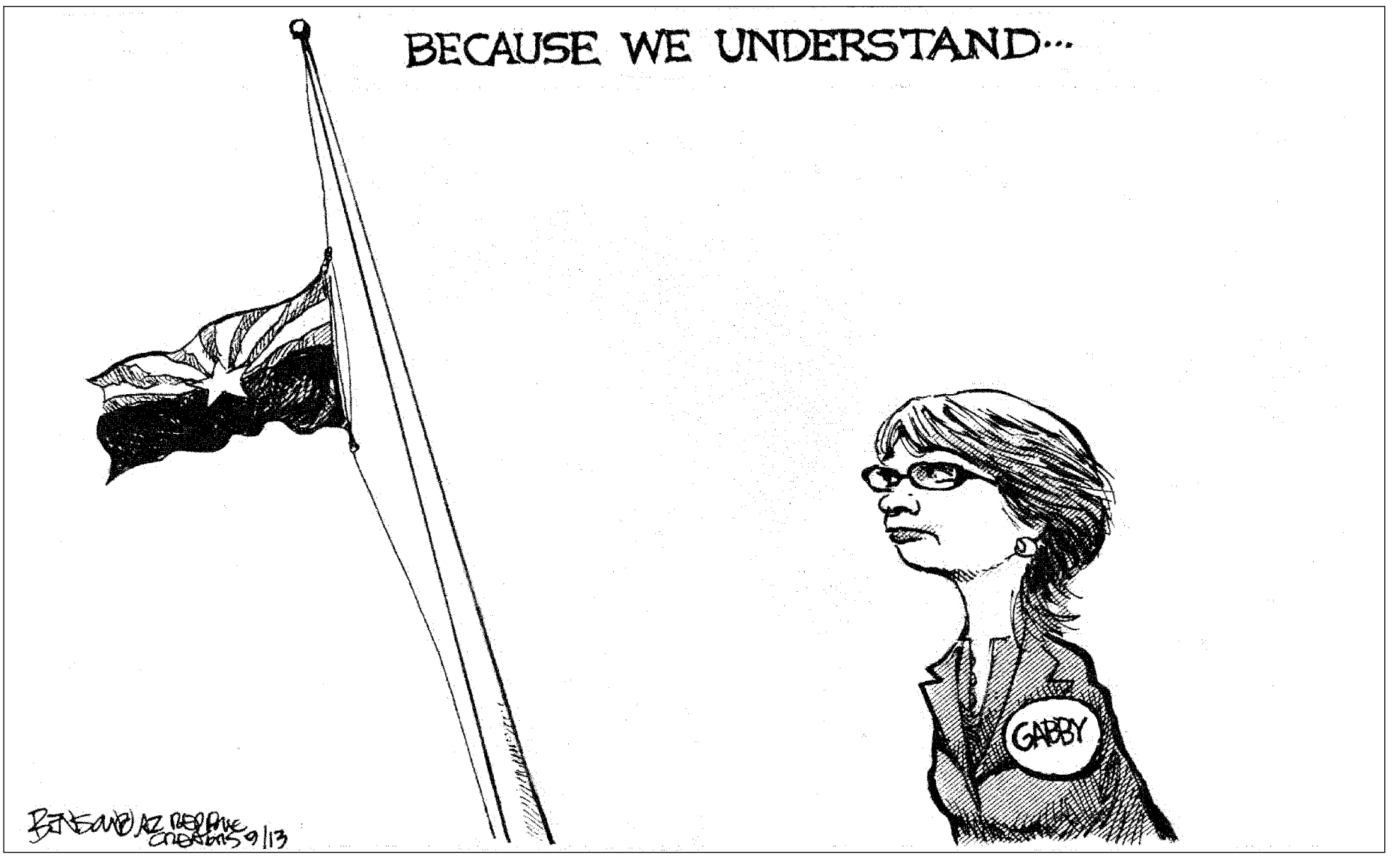
Trent, from Page 4

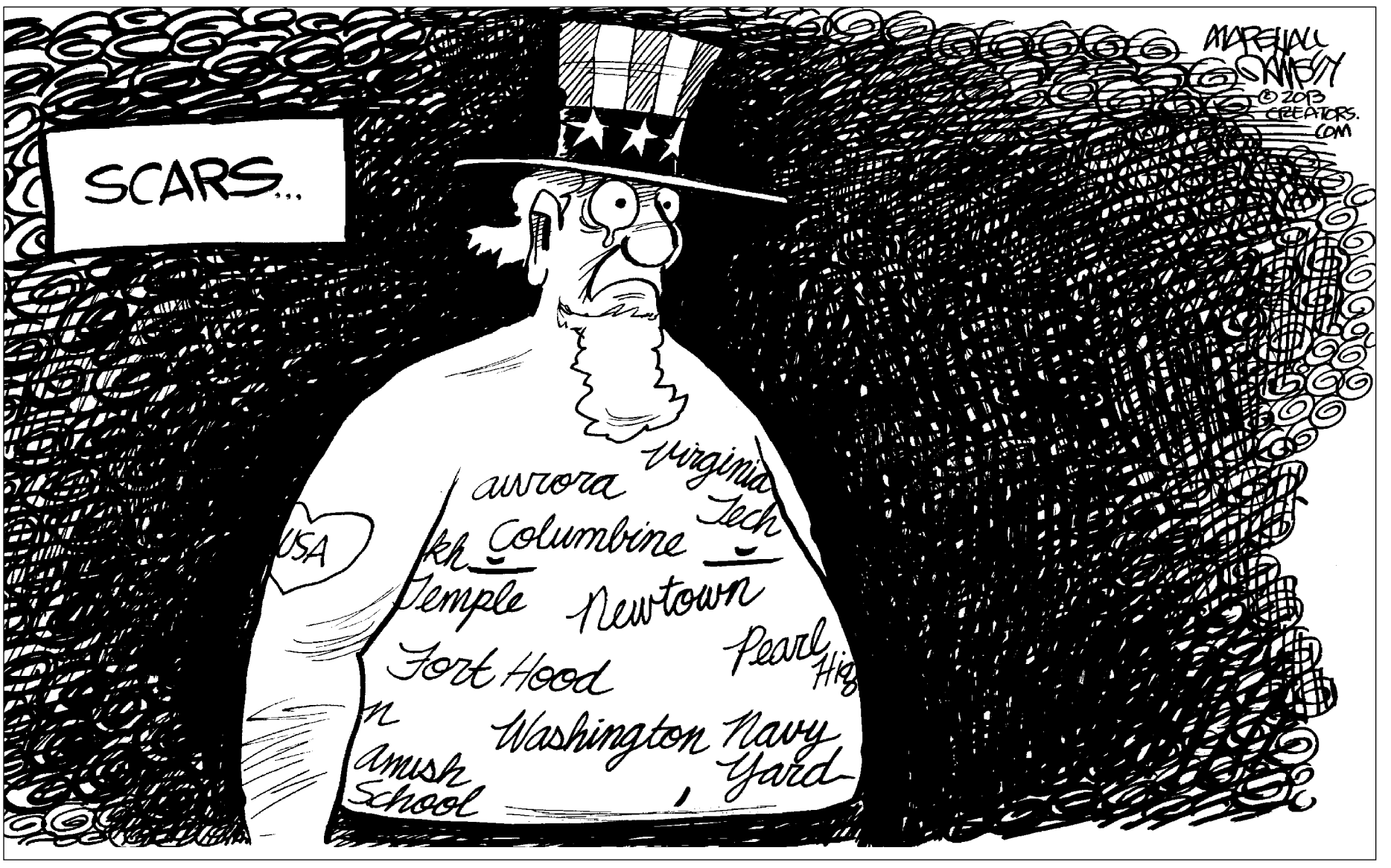
our rat, I was overwhelmed with gratitude to him. I had not felt such a strong emotional reaction towards the lab animals who I had refused to touch. When I forced myself to deliver the incision, I did not look away. As a result, I appreciated the invaluable knowledge we collected from out animal infinitely more.

After coming back from lab, I opened my neuroscience textbook to a section addressing the use of animals in scientific research. I was surprised to read that the number of animals used for biomedical research accounts for less than one percent of the number of animals used for food alone. Scientists adhere to a strict ethical code monitored by the Institutional Animal Care and Use Committee; I remembered the lab manager explaining this to us at the beginning of the semester. While I felt a sense of relief, I also became conscious of the heavy moral responsibility we take on.

Laboratory animals offer us the gift of knowledge. As fellow inhabitants of Earth — not only as scientists — it is our moral obligation to appreciate every part of their sacrifice and utilize their gift for the benefit of both mankind and animal-kind.

Erika Trent is a member of the class of 2014





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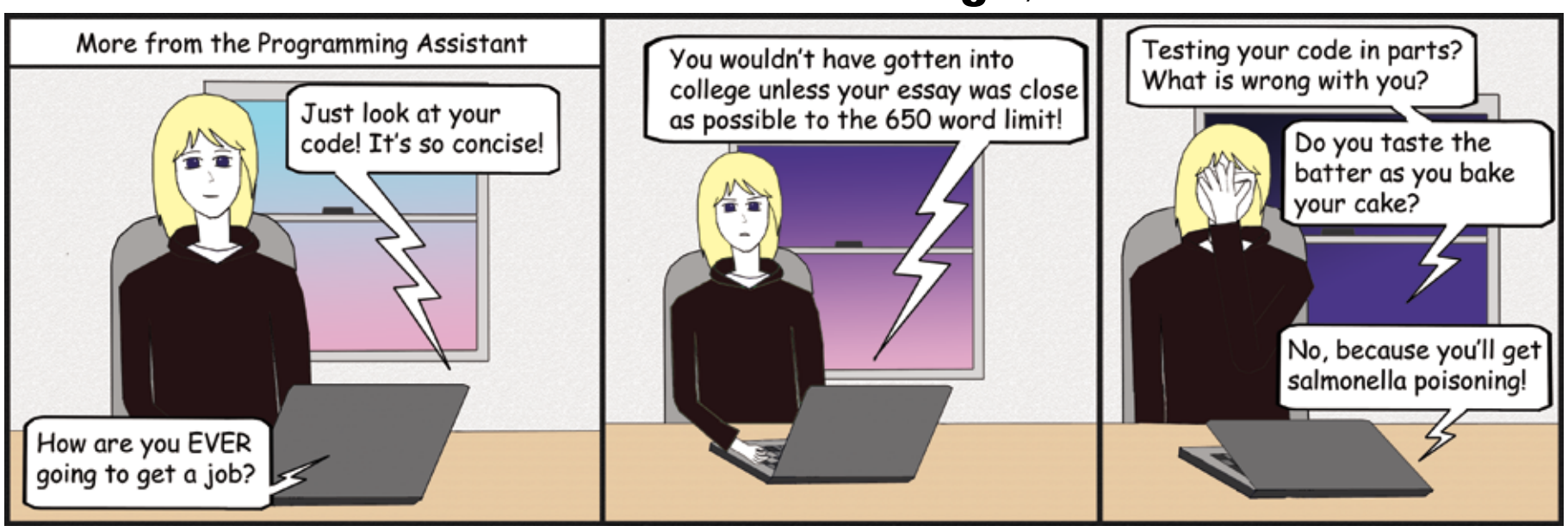
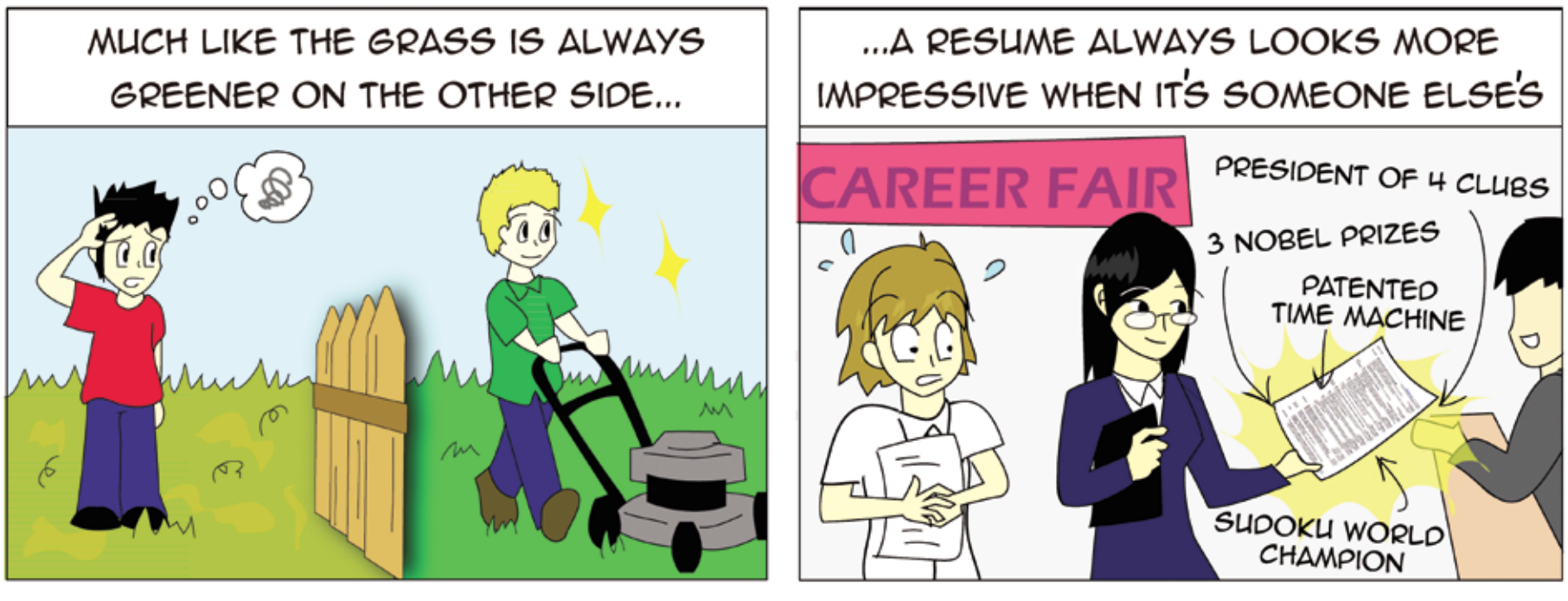
FUN

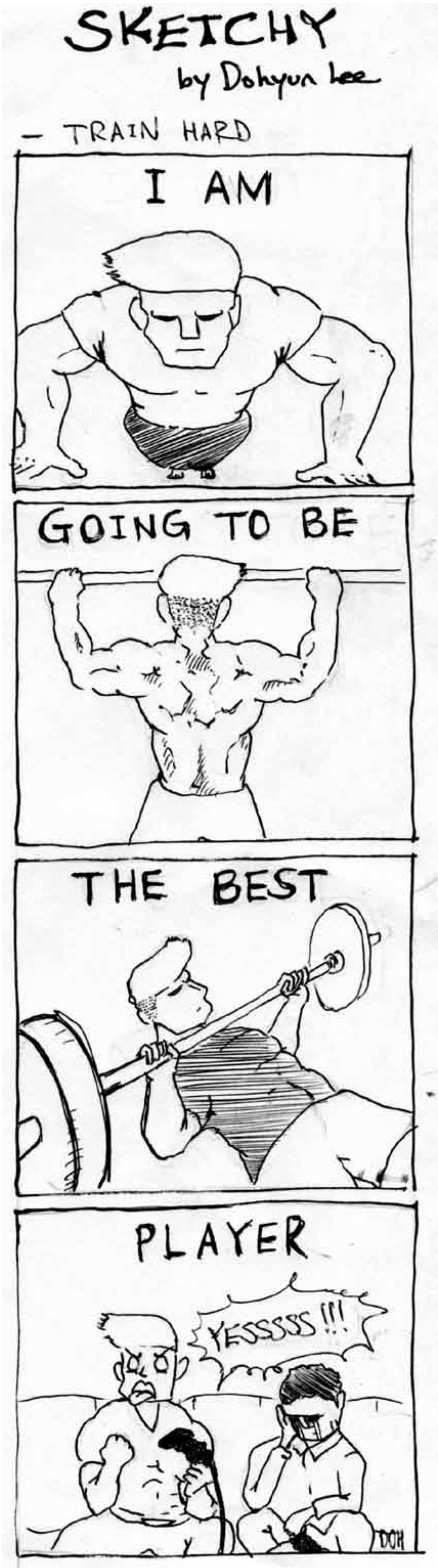
Somewhere on the Search for Meaning by Letitia Li



UPPERCUT by Steve Sullivan

Q.E.D. (QUITE EASILY DONE) BY ERIKA TRENT





Driving Around by Bruce Venzke

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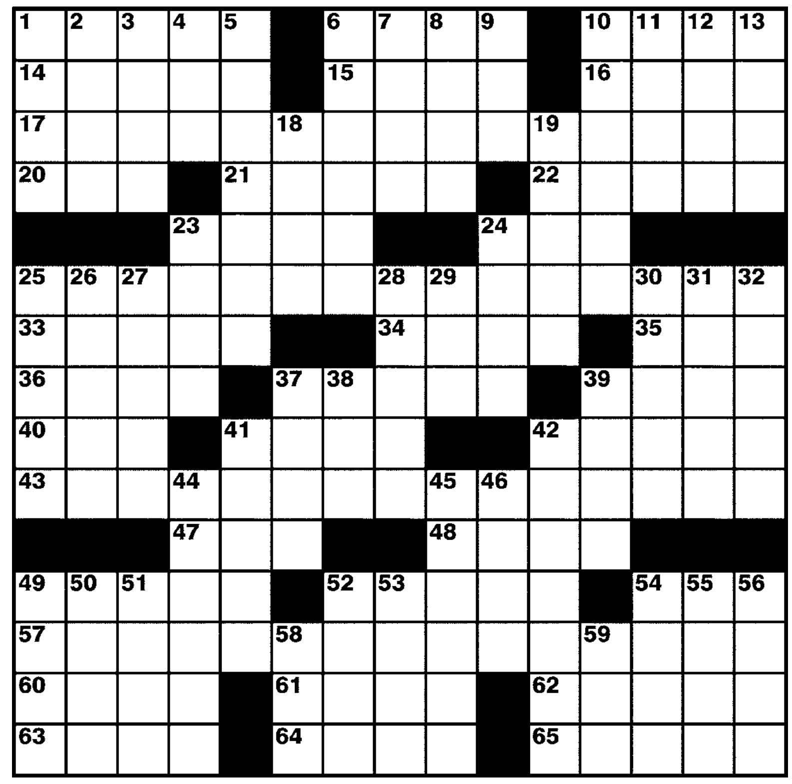


ACROSS

1 Soprano's pride
6 First word of "Jabberwocky"
10 Word processor command
14 Secondary to
15 Individually
16 Sour-tasting
17 Turn a 65 to an A, perhaps
20 "Wait a minute!"
21 Modern slang for "applaud"
22 Large quantity
23 Highlands valley
24 Pique
25 Fully control a commodity
33 Inventor Howe
34 October birthstone
35 Recipe phrase
36 Put on the market, as a home
37 Impressive grouping
39 Thorn site
40 Holiday precursor
41 Roman poet
42 Pine Tree State
43 Prattle on and on
47 Scooted
48 Have a little something
49 Islamic patriarch
52 Underlying principle
54 School volunteer grp.
57 Land on a "go again" square
60 Part of the MLB postseason
61 La __ Tar Pits
62 Stared at stars
63 Oust
64 USN rank
65 Strong adhesive

DOWN

1 Jackman of the X-Men films
2 Legal memo starter
3 Sydney salutation
4 "If__ only listened"
5 Some bayou folk
6 Rent payer
7 Power measure
8 Have a yen
9 Any ship
10 Piece of dinnerware
11 Pasture portion
12 Bounty competitor
13 Sistine Chapel scene
18 No longer enamored of
19 Shade of pink
23 Flying pest
24 Noncommittal reply
25 Fanzine focus
26 Antipasto morsel
27 Elevated
28 Unruly bunch
29 Pollution watchdog: Abbr.
30 Tom Cruise ex
31 Kagan of the Supreme Court
32 Bronco buster
37 Stratford's river
38 Grand Canyon observation point
39 Windowpane holder
41 City southwest of Tokyo
42 It may be a text
44 Least interesting
45 Auto safety/tracking system
46 Dark film genre
49 Total guess
50 Divine circle
51 Cookware name
52 Road shoulder
53 Split, as a log
54 Creator of the Corleones
55 Prehistoric predator
56 Toy Story boy
58 The Apprentice network
59 Water outlet

Sudoku

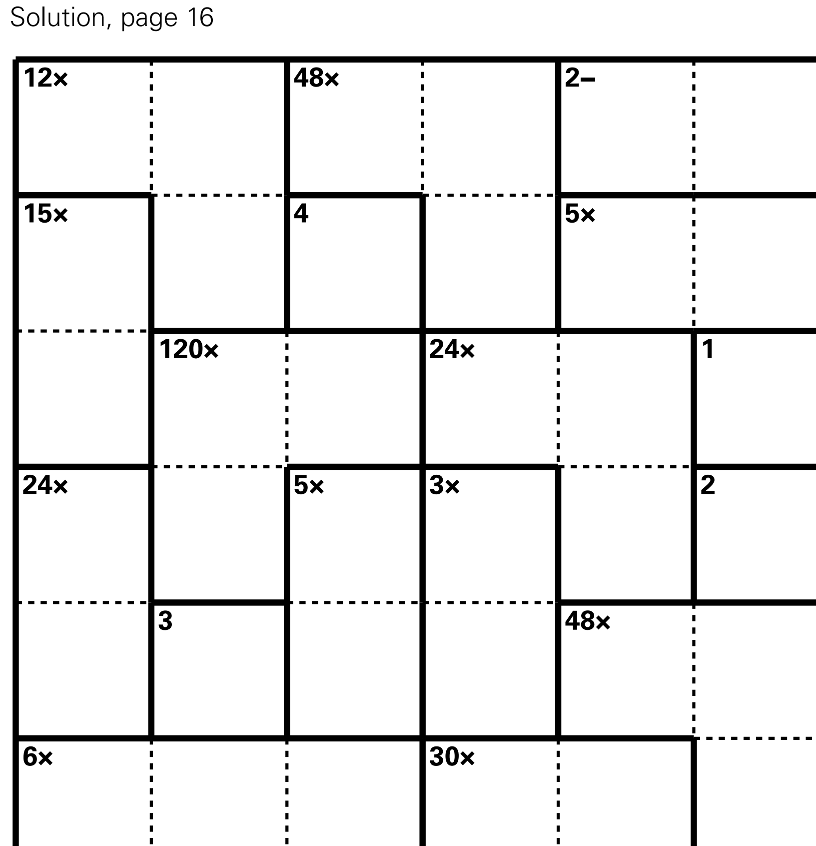
Solution, page 16

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

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 16



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

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Pope calls for church as 'home for all'

Francis criticizes obsession with abortion, gay marriage, contraception

By Laurie Goodstein
THE NEW YORK TIMES

Six months into his papacy, Pope Francis sent shock waves through the Roman Catholic Church on Thursday with the publication of his remarks that the church had grown "obsessed" with abortion, gay marriage and contraception, and that he had chosen not to talk about those issues despite recriminations from critics.

His surprising comments came in a lengthy interview in which he criticized the church for putting dogma before love, and for prioritizing moral doctrines over serving the poor and marginalized. He articulated his vision of an inclusive church, a "home for all" — a striking contrast with his predecessor, Pope Benedict XVI, the doctrinal defender who envisioned a smaller, purer church.

Francis told the interviewer, a fellow Jesuit: "It is not necessary to talk about these issues all the time. The dogmatic and moral teachings of the church are not all equivalent. The church's pastoral ministry cannot be obsessed with the transmission of a disjointed multitude of doctrines to be imposed insistently.

"We have to find a new balance," the pope continued. "Otherwise even the moral edifice of the church is likely to fall like a house of cards, losing the freshness and fragrance of the Gospel."

The pope's interview did not change church doctrine or policies, but it instantly changed its tone. His words evoked gratitude and hope from many liberal Catholics who had felt left out in the cold during the papacies of Benedict and his predecessor, John Paul II, which together lasted 35 years. Some lapsed Catholics suggested on social media a return to the church, and leaders of gay rights and gay Catholic groups called on bishops to abandon their fight against gay marriage.

But it left conservative and traditionalist Catholics, and those who have devoted themselves to the struggles against abortion, gay marriage and artificial contraception, on the defensive, although some cast it as nothing new.

"Nobody should try to use the words of the pope to minimize the urgent need to preach and teach about abortion," said the Rev. Frank Pavone, national director of Priests for Life, who said he had spoken Thursday about the "priority of the abortion issue" at a Vatican conference.

The interview with Francis was conducted by the Rev. Antonio Spadaro, editor-in-chief of La Civiltà Cattolica, an Italian Jesuit journal whose content is approved by the Vatican. Francis, the first Jesuit to become a pope, agreed to grant the interview after requests from Spadaro and the editors of America, a Jesuit magazine based in New York.

Spadaro conducted the interview during three meetings in August in the pope's spartan quarters in Casa Santa Marta, the Vatican guesthouse, where Francis said he had chosen to live because it is less isolated than the papal apartment in the Apostolic Palace. "I cannot live without people," Francis, who is 76, told Spadaro.

The interview, kept under wraps for weeks by the Jesuits, was released simultaneously Thursday by 16 Jesuit journals around the world. Francis personally reviewed the Italian transcript, and it was translated by a team into English, said the Rev. James Martin, an editor-at-large of America.

"We have a great pope," Spadaro said in a telephone interview surrounded in his office by Italian journalists. "There is a big vision, not a big shift. His big vision is to see the church in the middle of the persons who need to be healed. It is in the middle of the world."

The interview is the first time Francis has explained the reasoning behind both his actions and omissions. He also expanded on the comments he made about homosexuality in July, on an airplane returning to Rome from Rio de Janeiro, where he had celebrated World Youth Day. In a remark then that produced headlines worldwide, the new pope said, "Who am I to judge?" At the time, some questioned whether he was referring only to gays in the priesthood, but in this interview he made clear that he had been speaking of gays and lesbians in general.

> **The pope's interview did not change church doctrine or policies, but it instantly changed its tone.**

"A person once asked me, in a provocative manner, if I approved of homosexuality," he told Spadaro. "I replied with another question: 'Tell me: When God looks at a gay person, does he endorse the existence of this person with love, or reject and condemn this person?' We must always consider the person."

The interview also serves to present the pope as a human being, who loves Mozart and Dostoevsky and his grandmother, and whose favorite film is Fellini's "La Strada."

Francis said some people had assumed he was an "ultraconservative" because of his reputation when he served as the superior of his Jesuit province in Argentina. He pointed out that he was made superior at the "crazy" young age of 36, and that his leadership style was too authoritarian.

"But I have never been a right-winger," he said. "It was my authoritarian way of making decisions that created problems."

Now, Francis said, he prefers a more consultative leadership style. He has appointed an advisory group of eight cardinals, a step he said was recommended by the cardinals at the conclave that elected him. They were demanding reform of the Vatican bureaucracy, he said, adding that from the eight, "I want to see that this is a real, not ceremonial consultation."

The pope said he had found it "amazing" to see complaints about "lack of orthodoxy" flowing into the Vatican offices in Rome from conservative Catholics around the world. They ask the Vatican to investigate or discipline their priests, bishops or nuns. Such complaints, he said, "are better dealt with locally," or else the Vatican offices risk becoming "institutions of censorship."

Asked what it meant for him to "think with the church," a phrase used by the Jesuit founder St. Ignatius, Francis said that it did not mean "thinking with the hierarchy of the church."

"This church with which we should be thinking is the home of all, not a small chapel that can hold only a small group of selected people," he said. "We must not reduce the bosom of the universal church to a nest protecting our mediocrity."

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INTERVIEW

Lessons from the good love stories

College Press Roundtable Interview with Joseph Gordon-Levitt

By Sophie Chung
STAFF WRITER

Hey, you. Yes, you, at MIT with the glasses and the projected science degree. Joseph Gordon-Levitt has relationship advice for you. And it is nerdy.

Joseph Gordon-Levitt's new movie, *Don Jon*, will be released in theaters on Friday, September 27. In the film, Joseph Gordon-Levitt plays Don Martello, an attractive, hyperconfident guido from New Jersey, whose life revolves around just a few things: "his body, his pad, his ride, his family, his church, his boys, his girls…and his porn."

Having created a movie with this tagline, it seems like JGL would understand little about life as an MIT nerd. But *Don Jon* is not his directing debut. In 2005, JGL founded hitRECord, an online collaborative production company with a mission statement right in line with Kickstarter. With hitRECord, JGL produced CD's (#oldschool), books (I highly recommend *The Tiny Book of Tiny Stories*, which is available at the COOP), and short films that gave him prior directing experience. Especially when it came to music.

The Tech: For me, many of the scenes in the movie wouldn't have been the same without the soundtrack. Could you talk a little more about how you came up with it and how you constructed it?

Joseph Gordon-Levitt: [The music] was one of my favorite things about directing the movie. Because when you're an actor, that's something that happens without you there at all. And you don't know what's going to be happening in these scenes and you see the movie and there's another actor you didn't know about. Sometimes it's a great surprise, sometimes it's a not-so-great surprise. When I was writing *Don Jon* I got to work with Nathan Johnson, who was the composer on *Looper* and *Brick* and a couple of short films. And really, Nathan was a collaborator beyond music. He's a very good friend of mine and a brilliant artist. I really wanted the movie to have a rhythm to it and be sort of a piece of music in and of itself. He was instrumental in making that happen… and we definitely made some bold choices with the music that are not traditionally what you do — like changing the vocabulary drastically a couple times.

The first act is all these sort of big shiny synth sounds, the middle of the movie is this traditional Hollywood orchestra, and the end of the movie is sort of these sparse guitars. I think it worked out pretty seamlessly, and I'm really pretty proud of it. And in fact, if you listen closely you'll hear, the way Nathan composed it, there are melodies that recur throughout, even in these different palettes. It's really intricate and really great what he put together. I'm so proud of the music.

Interviewer from Boston University: Why do you think humans are so quick to objectify?

JGL: A really good question. I think it's something that's always been around for sure because it's easy — and arguably, at times, useful. If you're, you know, living life out on the savannah, you're going to objectify the lions who might eat you. And even though there's a nice lion now and then, you're not going to give him or her the time of day. You're just going to go, "That's a lion. Fuck that." And that's probably where it comes from — it's a biological thing. But now that we live this more civilized life, this nuanced thing — that can really get in the way of us being happy. It's so much easier to [objectify], to say, Oh, I know what that is! And that's what Jon does, and that's what Barbara does. But as you can see, it keeps disappointing him… He keeps wanting [life] to live up to this checklist of expectations that he's learned from pornography…or from Carl's Jr. commercials. And when you're comparing your real life to those very static expectations, it's a recipe for disappointment.

I actually think there's a lot of similarities between *500 Days of Summer* and *Don Jon*, even though the two characters have very different styles. They're both kind of selfish dudes. The character in *500 Days Of Summer*, Tom — it's funny because people often ask me, "Why did she break up with him? How could she, she's terrible!" — he was really selfish, he wasn't listening to anything she (Summer) said. I think he sort of deserved to be broken up with, and he was doing something very similar to what Jon does. He was projecting his fantasies, his simplistic fantasies onto this girl, rather than paying attention to who she really was.

By the end of the movie, he's starting to grow up a bit and starting to realize, okay, I can't just project my fantasies onto a woman and expect that she's going to make my life; I'm going to have to figure it out for myself. And there's a similar progress in *Don Jon*. He projects these fantasies onto women in his life rather than paying attention to who they really are. And hopefully by the end of the movie he's starting to connect more and actually listen and pay attention.

Interviewer from UMass Boston: What is your favorite movie about love?

JGL: *The Matrix* Trilogy. There's a line in the third movie where this program says to Neo, he says, "Love is a word. What is important is the connection that it implies." And I just love that. Neo and Trinity have this connection based on what they're trying to do — they have a mission that's in line with each other. And neither one of them could accomplish that mission without the other. They love each other and they would do anything for each other. I like that love story. What's another good one? There's obviously the more kind of clear — like *Eternal Sunshine Of The Spotless Mind*, I really like that one. I like *500 Days Of Summer*. I think that's one of the good love stories recently.

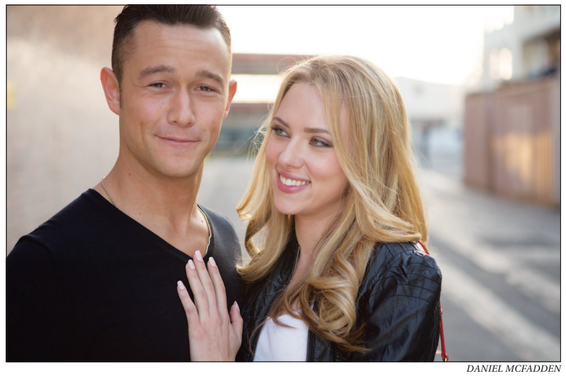
The very last question in the interview fell to me, and with all this talk of love and computer programs, I just couldn't resist.

TT: So I go to MIT, and I know a lot of guys who would just be going crazy to hear you talk about *The Matrix* and love in *The Matrix* that way. So a little selfishly, I want to ask: what love advice you would give the nerds in the world, given that you understand them?

JGL: It would be the same advice I would give anybody. As far as love advice, this is one of the things in *Don Jon* — that everyone is unique and that's really important. It's especially important for an engineer at MIT who is, you know, really good at quantifying things. But you can't. You cannot quantify human relationships because quantification is all based on the idea that if you repeat an action, you'll get the same result.

Well, that doesn't work with human beings. Every single one is completely different. And so every single relationship is going to be completely different. Whatever relationship you have with one person is not going to be the same relationship as you have with another person. So the most important thing is to pay attention to what's going on right in front of you right now. And not think about the rules or the past or the future, but just pay attention to what's happening right now.

> **'You cannot quantify human relationships because it is based on the idea if you repeat an action, you'll get the same results.'**
>
> *—Joseph Gordan-Levitt*
> DIRECTOR OF *DON JON*



DANIEL MCFADDEN

Joseph Gordon-Levitt with co-star Scarlett Johansson in *Don Jon*.

DANIEL MCFADDEN

Writer/Director/Actor Joseph Gordon-Levitt on the set of *Don Jon*.

MOVIE REVIEW

Ethics and Consequences

Director Villeneuve asks a terrifyingly real question about how far we would go to protect the ones we love

★★★★☆

Prisoners

Directed by Denis Villeneuve

Starring Hugh Jackman, Jake Gyllenhaal, Viola Davis, and Terrence Howard

Rated R

Now Playing

By Chennah Heroor

Perhaps the most terrifying thing about disaster is the idea that it can strike at any time. *Prisoners*, a harrowing tale of kidnapping, is about two average families in an eerily beautiful suburbia.

On Thanksgiving, Keller Dover (Hugh Jackman) brings his wife and family over to Franklin (Terrence Howard) and Holly Birch's (Viola Davis) house for a simple get-together. As the dinner winds down, Dover and Birch's young daughters ask to go outside to find a missing whistle. The after dinner chatter is remarkably mundane, yet sounds strained and unnatural, as if even the families are anxiously anticipating the approaching terror.

Soon after, Dover and Franklin walk out to find the girls. Their search is punctuated by director Denis Villeneuve's hauntingly empty scenes, lingering on ominous details. Neither Keller nor Franklin can find the girls, and their only lead is a decrepit white RV parked near the Birch's house at the beginning of the dinner.

Detective Loki (Jake Gyllenhaal) is assigned to the case. A stereotypical laid-back loner, he approaches the case with an infuriating lack of empathy. While the Dovers and Birches frantically comb the woods near their house, Loki makes only a half-hearted attempt to hold the shifty, suspicious owner of the RV, Alex Jones.

> **We are drawn into asking ourselves, what would we do to save someone we love?**

Villeneuve works hard to create a realistic family. The stunning cinematography creates an idyllic suburbia with a muted palette and lingering scenes that truly define the isolation of each family member from the others. But this prologue feels hollow. Even the characters seem to be reading lines from someone else's story.

The ensuing story escalates after Jones is released. Dover is forced to make the hard decision of whether to take matters into his own hands or not. We are drawn into asking ourselves, what would we do in order to save someone we love? Would we react violently? Would we resort to torture? Would we confront the suspected killer, and beg for mercy for our daughter? Or would we fill our heads with willful delusions and medicate ourselves until we had trouble remembering reality?

One thing is for sure: there are no happy endings. Every action, whether lawful or anarchic, good or evil, has a consequence. Rather than shying away from the brutal beatings, Villeneuve forces us to confront the consequences. As Dover maniacally beats the suspect, we must watch him whimper and plead like a lost child. Even if we turn away, we are no less implicit in our encouragement of the violence than the other grieving father, Franklin, who watches the torture without saying a word.

And what price should Dover pay, if he is wrong? Detective Loki tracks down another suspect who has been buying children's clothes in thrift stores, and snuck into both the Birch and Dover's houses. What if Dover has been torturing an innocent man all along?

The puzzle starts to come together as Detective Loki begins to match pieces from the different crime scenes together. Obscure hints placed throughout the movie help lead him to the true perpetrator, but will it be too late for the girls?

The suspenseful movie ends with an ambiguous cliffhanger, forcing us to determine the fate of the characters. While the ending was intentional, I couldn't help being disappointed by the conclusion. Throughout the movie, the characters had to make difficult decisions with limited information. Yet at the end, when the villain was clear, both Dover and Loki chose to throw away logic in order to set up the ending. Though the setup was extremely unsatisfying, it seems logical to force us to pass judgment on who is guilty or innocent, and what price they should pay.

> **Rather than shying away from the brutal beatings, Villeneuve forces us to confront the consequences.**

Though the movie dragged along at the beginning, director Villeneuve was able to create a truly terrifying thriller by forcing us to confront our own morals and the consequences of our actions without losing any of the adrenaline. I'd definitely recommend seeing this movie with a friend, otherwise you'll be terrified of being kidnapped or tortured after leaving the theater.

WILSON WEBB

Keller and Grace Dover (Hugh Jackman and Maria Bello) in *Prisoners*.

WILSON WEBB

Keller Dover (Hugh Jackman) and Alex Johnes (Paul Dano) in *Prisoners*.

ALBUM REVIEW

Janelle Monáe's android-inspired saga continues with *The Electric Lady*

Thematically less ambitious than its predecessors, but equally inspiring

★★★★★

The Electric Lady

Janelle Monáe

Wondaland Arts Society / Bad Boy Records

Released September 10, 2013

By Denis Bozic
STAFF WRITER

"Also, I wanna say The Droid Control can kiss the rust of the left and the right cheek of my black metal ass," says the voice of a female caller during a radio call in Monáe's interlude "Good Morning Midnight." The radio station WDRD, led by DJ Crash Crash, receives comments and thoughts from various callers, who discuss their opinions on Monáe's heroine alter-ego, android Cindi Mayweather.

Monáe's longtime fans have been following the heartbreaking story of the fugitive android ever since she introduced Cindi's character on her widely unknown debut album, *The Audition*. The actual narrative fully formed its flow on her conceptual EP *Metropolis: Suite I (The Chase)*. It told the story of android 57821, otherwise known as Cindi Mayweather, who fell in love with a human named Anthony Greendown. Ostracized by the droid community, Cindi was labeled top android fugitive and prime target for The Droid Control's bounty hunters. The tale continued throughout Monáe's widely-acclaimed and highly eclectic full-length album *The ArchAndroid*, which ended with a climactic 8-minute orchestral piece "BaBopByeYa". With the song's final verses, "my freedom calls and I must go," and Cindi's narrative flashbacks of Anthony Greendown, the listeners were left wondering what the next chapter of the forbidden-love saga would entail.

Three years later, Monáe is back with a 19-track sequel entitled *The Electric Lady*. The new album takes a slight detour from the usual storyline and puts the spotlight on Monáe's pre-android storyline and R&B-heavy melodies. Most of the android-inspired themes are told throughout the album's three radio interludes, which do not reveal much about the latest details of Cindi's destiny. Instead, they focus on the population's support and rejection of her lifestyle. The diverse musical styles from *The ArchAndroid*, ranging from pop and rock to hip-hop and orchestral, exist only in subtle nuances on the new album. Suite IV and V Overtures still bring a reminiscent sound of *The Electric Lady*'s predecessor, but none of the songs reach the spectacular emotional quality of songs like "BabopbyeYa." The lack of cohesive storyline, which became Monáe's trademark, and the more homogenous musical style leave the album bereft of the final touch of Monáe-esque brilliance.

> **One must admit Monáe is still as fantastic as ever.**

However, brilliance is a relative concept when it comes to Janelle Monáe. A less audacious album in her sphere of artistry is still an inspiring and defining album in the sphere of the wider music industry. The converged and R&B-centered musical style of *The Electric Lady* sounds indisputably refreshing and novel when Prince joins Monáe in "Givin 'Em What They Love," one of the album's stand-out old-school tracks; or when Monáe and Miguel together tackle the album's down-tempo and hypnotic love ballad "Primetime." The album's eponymous track, a collaboration between Monáe and Solange Knowles, brings out the old spirit of Janelle Monáe, in a song filled with dance beats, brass instruments and infectiously catchy lyrics. Big-name collaborations do not end there – Esperanza Spalding and Monáe thrive together in the jazzy lounge track "Dorothy Dandridge Eyes," and Erykah Badu contributes her vocals in "Q.U.E.E.N." While Monáe brings her traditional fusion of psychedelic nostalgia and funk elements in upbeat songs like "We Were Rock & Roll," she also delivers a fantastic performance in more mellow, soul-inspired tracks like "Can't Live Without Your Love" and "Look Into My Eyes."

The development of the android-inspired saga remains unclear as Monáe wraps her lyrics with a layer of ambiguity and brings in more references to her personal life. However, when Monáe steps in "Ghetto Woman," rapping "before the tuxedos and black and white every day / I used to watch my momma get down on her knees and pray," or when she delivers the numbing rap sequence in the last part of "Q.U.E.E.N", one must admit that Monáe is still as fantastic as ever, even if her efforts are no longer primarily focused on fictional and unusual themes.

Just before the radio conversation in "Good Morning Midnight" ends, the unknown female caller informs DJ Crash Crash that "[they] gonna take to the club tonight and break some rules in honor of Cin-di!" Thrilled and excited, DJ Crash Crash asks the female caller which rules they are going to break.

"We gonna break all of them", replies the caller.

Monáe's new album might be thematically less ambitious and musically less inclusive than her previous efforts, but less does not mean worse. *The Electric Lady* is different, equally inspirational and the best indicator of an undeniable truth – Monáe still knows how to break all the rules.

Highlight tracks: "Givin 'Em What They Love" ft. Prince, "We Were Rock & Roll", "What an Experience", "Can't Live Without Your Love", "Electric Lady" ft. Solange, "Ghetto Woman."

ATLANTIC RECORDS

Album cover art for Janelle Monáe's new album *The Electric Lady*.

BOSTON CENTER FOR THE ARTS

***Culture Tap*, a street installation of interactive kiosks** that combines oral tradition, environmental lighting, and more.

EXHIBIT REVIEW

Culture Tap and the Street Experience

Public art project rethinks role of technology to enrich pedestrians' daily experience

By Natthida Wiwatwicha
STAFF WRITER

> **Culture Tap**
> **By Dan Sternof Beyer and Bevan Weissman of New American Public Art**
> **BCA Plaza, 539 Tremont Street**
> **On display until October 18, 2013**

The walk from the Orange Line Back Bay station, down Clarendon Street, and to the intersection with Tremont Street, is a pleasant one. The street presents itself somewhat like you would expect it to in the North End. It feels old, solid, well-kept and welcoming. The atmosphere is curiously fascinating, marking the place as a distinct piece of Boston, made up of "neighborhoods" and the transitional moments between them. *Culture Tap* has been situated in a plaza-like wide sidewalk on one of the most delightful streets in Boston.

Culture Tap is a street art installation in the form of interactive kiosks. It integrates audio clips of oral tradition, environmental lighting and data collection, simultaneously interfacing with pedestrians via their Charlie Cards. The work comprises two components: *Stories by Day* and *Lights by Night*. During the daytime, an approximately seven-foot tall quartz-like polygon plays audio clips of South End residents' personal and historical anecdotes. It continues through the sunset, but each Charlie Card swiped after that point activates environmental lighting — the speaking object now glows in different colors. The stories told range from the tale of a man who met his wife at the bus stop nearby, to a description of bars and pubs on that same street back in the day. The project was created by the artist collective New American Public Art, as part of Boston Center of the Arts' (BCA) Public Art Residency program. It fits beautifully into the context of the South End community, activating the public space, and bringing strangers on the street to interact with each other and engage with their environment.

When I first swiped my Charlie Card at a kiosk I was suddenly sitting down next to an old lady, striking up a conversation, or getting into a cab and having a chat with the driver. After I re-swiped my card a few times, the stories started to loop — I was disappointed. Fortunately, a few people nearby started to talk to me and ask about the piece. One of them tapped his own Charlie Card, the narrative voice changed: the different Radio-frequency identification (RFID) number of his card had prompted a different set of stories than mine. This *hyperspecific* yet random aspect of the kiosk made us unanimously agree: "that's pretty awesome." The kiosks are intended to serve as a holistic and creative approach to place-making, incorporating quantitative metrics and bolstering local Boston pride. Along with other pedestrians, I think the artists have succeeded in their objectives.

At night, the kiosks also interact with moving light sources, i.e. cars and shadows from people walking. Generally, moving shadows reflect actual movement, but since there are multiple cars that drive by, the shadow of a pedestrian changes in size and transparency while reappearing multiple times. The effects create a strange time lag and duplications of the shadows are trapped inside the glowing polygon.

One aspect of the installation that could have been improved was the signage. Passersby seemed to be curious, but did not have the patience to read the description. However, when I had to summarize the installation to curious fellow pedestrians as "anecdotes from local people about this place in the past," this alone was clear enough to intrigue them. If the signage were simpler and more visually accessible, it would be more effective at catching the attention of bystanders, and communicate enough to provoke a response from them.

> ***Culture Tap* fits beautifully into the South End community.**

Imagine if installations like *Culture Tap* were a permanent part of a street's time-capsule-like infrastructure. It could play clips recorded on that specific day from three decades ago — my children would be as curious about this decade as I am of the past; intrigued by things I did not get to witness, but that I am experiencing through its continuity. Sometimes I imagine that in the future, streets will serve not only as a line from point A to point B, but also as sources of happiness that allow people to have a richer daily journey. *Culture Tap* has only increased my optimism about the future.

Since *Culture Tap* is intended as a spontaneous and situational experience, I recommend experiencing the streets near the BCA and allowing the interface with the kiosks to be peripheral rather than central. Go for a walk during sunset to a restaurant or music venue in the area; visit one of the theaters, the ballerina costume shop or the historical 1865 cyclorama on the BCA campus; or simply look around and soak in the entrancing atmosphere. The point of a public place or street is that you have the right to be there regardless of who you are or what you do.

It is a challenge to integrate technology and art into a project that is accessible and impactful to a wide range of people, one that encompasses people outside of the educated middle classes who own a smartphone. Once in a while, it is nice to be reminded that we live and share the world with others – little kids, an old man who works at a bookstore, a busy single mother with six children and even someone who blows autumn leaves into piles for our landscape. A street art installation like *Culture Tap* can connect us all together, by wonder, curiosity and delight.

MOVIE REVIEW

Too many bodies, not enough laughs

A superbly cast movie that fails to deliver humor or drama

> ★☆☆☆☆
> **The Family**
> **Directed by Luc Besson**
> **Starring Robert De Niro, Michelle Pfeiffer, Tommy Lee Jones, and Diana Agron**
> **Rated R**
> **Now Playing**

GRIVE PRODUCTIONS

(Left to right) John D'Leo, Michelle Pfeiffer and Dianna Agron in *The Family.*

By Chennah Heroor

Near the beginning of *The Family*, Giovanni (Robert De Niro) narrates his life story. A former mafia boss who snitched on the mob, Giovanni is forced to become "Fred Blake" and enter witness protection in Normandy with his wife "Maggie" (Michele Pfeiffer), daughter "Belle" (Diana Agron) and son "Warren" (John D'Leo). Though he's committed untold numbers of murders, tortures, and other devious schemes, he somehow sees himself as a misunderstood "good guy" living with his own moral code. And this absurd delusion seems like an apt metaphor for *The Family*, a movie convinced that gruesome murders and thin laughs can create a good gangster movie.

The Blakes are relocating again after FBI Agent John Stansfield (Tommy Lee Jones) was forced to clean up the Blakes' last few messes. You see, the Blakes can't seem to shake their old habits of dealing with problems, and it doesn't look like they'll be changing soon. Maggie quickly finds herself burning down a grocery store after listening to a disrespectful shopkeeper. Belle beats up a petty thief, and Warren cons his way to the top of the school's black market. You just can't disrespect this family.

> **Though the actors all give winning performances, their work isn't enough to overcome the dull script.**

Giovanni is the only one trying to reform. After a particularly bad run-in with a stereotypical lazy French plumber, Agent Stansfield warns Giovanni he's on his last straw. Any more funny business, and he'll be out of the witness protection program. But this new leaf is bound to disappear soon. Warren's short story about the mafia implausibly finds its way to the jailed mob don in the US, setting off a massive manhunt for Giovanni and his family.

Meanwhile, the Blakes are finally assimilating into their new home, culminating in

The Family, Page 13

The mafia family hiding in the suburbs

Weak script and nonsensical violence ruin potential for comedy and thrills

The Family, from Page 12

an evening where Giovanni is the guest of honor at the discussion of an American classic, *Goodfellas*. Cue the laughs. Later on, the mafia then catches up with the family, forcing them into a dramatic fight with an enormous body count.

Though the actors all give winning performances, their work isn't enough to overcome the dull script. De Niro and Pfeiffer work together so well that their on-screen marriage has a true warmth. Diana Agron is truly committed to her role as Belle, playing an innocent ingénue and a badass by turns, and Tommy Lee Jones seems to be coasting as a bored FBI agent.

Yet the body count in the film is quite disturbing. The film begins with a gruesome murder of a family at dinner, followed by a dismemberment of a man's fingers. The brutality inflicted by the Blakes is difficult to stomach because it lacks any consequences, neither being blackly funny nor particularly important to the story. The murders committed by an anonymous hit man are even worse. It's a real shame because the shock of watching these nonsensical murders ruins the lighter parts of the movie.

Perhaps the most disappointing thing about *The Family* is that it could have been a great thriller or a fantastic comedy, but it tries to do both and fails. Honestly, if you're looking for a good mob movie starring Robert De Niro, skip *The Family*, and watch *Goodfellas* instead.

GRIVE PRODUCTIONS

John D'Leo and Dianna Agron in *The Family*.

JESSICA FORDE

Dianna Agron and Robert DeNiro in *The Family*.

OPINION

Ceci N'est Pas Une Déconstruction Artistique

Marvin Harris' Anthropological Theory Applied to Modern Art

By Aaron Hammond

In the introduction to *Cannibals and Kings*, the anthropologist Marvin Harris wrote that "cultures on the whole have evolved along parallel and convergent paths which are highly predictable from a knowledge of the processes of production." This belief is the crux of his greatest contribution to anthropology, the theory of cultural materialism. Over the course of his career and many books (of which I own all), Harris applied this principle to explain many of the seemingly irrational practices and tenets of the world's varied cultures, notably including cannibalism and prohibitions on consumption of pork. In a contemporary context, however, I think it can be equally well applied to the phenomenon of so-called modern art.

In recent revelations by retired CIA officials, what was once regarded as a humorous conspiracy theory among the haut monde has been confirmed: for years, the agency secretly funded avant-garde art through the Congress for Cultural Freedom. Starting in 1950, the "Congress" organized overseas exhibitions with the ulterior motive of demonstrating the cultural superiority of the capitalist system over the state-sponsored propagandist works that passed for art in the Soviet Union. Examined through the lens of cultural materialism, modern art does one better — it demonstrates the very capacity of the capitalist system to harbor and encourage individual and unconventional artistic expression.

In most societies over the course of human history, art could best be described as incidental to production. Although the degree to which we fetishize Grecian amphorae and native totems tends to obscure these objects' respective intended purposes, most of the artifacts we hail as triumphs of human creativity served tangible purposes for the artisans who created them. Carved masks and murals were not made for their aesthetic merits, but to ward off demons and preserve historical narratives. While Jackson Pollock's *No. 5* probably could scare off would-be poltergeists, it was not created with that intention. Rather, what so confounds many observers is that the piece appears to have been created *without* tangible intention. *No. 5* exists on its own aesthetic merits.

Modern art demonstrates the capacity of the capitalist system to encourage artistic expression.

The almost distinctly Western institution of professional artistry (as opposed to artisanship) has existed for millennia, but began in earnest during the Renaissance. The relative spread of substantial wealth among Europeans during this period enabled the wealthy to give patronage to artists in unprecedented levels, enabling them to create without the necessities of production. This tradition of widespread private, almost philanthropic support of artists has continued to the present day, and furnished the means for the development of the very art form the CIA once weaponized. Conversely, in totalitarian societies where determination of each citizen's mode of production is the exclusive purview of the state, such individually motivated expression is impossible. In such a social organization, patronage cannot exist because art with only subjective aesthetic appeal cannot benefit the state as a whole.

This is not to say that the Soviet Union was a cultural wasteland. After all, the CIA's intent behind the support of abstract expressionism was to demonstrate the inferiority of extant Soviet "culture." But because artists in the Soviet Bloc relied on the state rather than private individuals for patronage, their work necessarily had to appeal to socialist sensibilities and took on propagandist qualities. The work of Mark Tobey and Aleksandr Deyneka differs fundamentally then in intent; while the former could paint with little interference, the latter was forced by the communist economic system to create within boundaries prescribed by the state. The marked differences in composition followed naturally.

What if the United States government had been more overt in its sponsorship of American artists? It is reasonable to think that Jackson Pollock would not have been painter laureate. Indeed, President Truman once remarked on a comparatively conservative expressionist work "If that's art, I'm a Hottentot!" When art is sponsored exclusively by the state, it is subjected to the whims of the state. In the USSR, this accountability led to murals of happy factory-workers and communal farms; in the United States, it could have been (god forbid) saccharine depictions of Americana à la Norman Rockwell. Capitalism and the right of individuals to decide how to make and how to spend their income nurtures innovation beyond industry — it is fundamental to the development of a robust and dynamic culture. Art does not exist *in spite of* a free market, it exists *thanks* to it.

ARTS EVENTS
SEPT. 20 – SEPT. 26

FRIDAY

(7:30 p.m. - 9:00 p.m.) MITOC and LSC present Radical Reels, short films about outdoor sports — 26-100

(All Week) RSVP for Fantasies from Verdi's Operas by La Scala Chamber Orchestra performance on Oct. 6. Advanced online registration required, closes Sept. 27. The event is free and exclusive to MIT Community members.

SATURDAY

(12:00 p.m. - 4:00 p.m.) Family Day at the List Visual Arts Center — E15, Upper Atrium

(7:00 p.m. - 10:00 p.m.) Chinese cultural performances — 50-Morss Hall

(7:30 p.m. - 11:59 p.m.) Masquerade Ballroom Social — Sala de Puerto Rico, W20

SUNDAY

(12:00 p.m. - 2:30 p.m.) Middle-East-Style Sukkah — Kresge Oval

(2:30 p.m. - 5:00 p.m.) MIT Ballroom Dance Club Rumba and Samba Workshops — W20

(5:00 p.m. - 7:00 p.m.) MITHAS presents Sandipan Samajpati, Khyal — Wong Auditorium

(8:00 p.m. - 11:00 p.m.) Folk Dancing with live music by the Cambridge Folk Orchestra — Sala de Puerto Rico

MONDAY

(7:30 p.m. - 8:30 p.m.) Folk Music of the British Isles & N. America, Fall 2013 concert series — Killian Hall

(7:30 p.m. - 9:00 p.m.) MIT Ballroom Dance Club Foxtrot Workshops — Lobdell

TUESDAY

(10:00 a.m. - 11:30 a.m.) Media Lab Conversations Series: Daniel Suarez — E14-3rd Floor Atrium

(8:00 p.m. - 10:30 p.m.) Contra Dance with live folk music — W20

WEDNESDAY

(12:00 p.m. - 1:30 p.m.) Poetry Reading by Nina Olff — 14W-111

(7:30 p.m. - 9:00 p.m.) Katsura Sunshine presents Japanese Rakugo comic story-telling — 32-123

THURSDAY

(7:00 p.m. - 9:00 p.m.) Urban Films: 5 Broken Cameras (2011) — 3-133

(8:00 p.m. - 10:00 p.m.) Ellipsis Trio — 14W-111

Send your arts events to *arts@the-tech.mit.edu*.

House Republicans pass bill with deep cuts in food stamps

By Ron Nixon
THE NEW YORK TIMES

WASHINGTON — House Republicans narrowly pushed through a bill Thursday that slashes billions of dollars from the food stamp program, over the objections of Democrats and a veto threat from President Barack Obama.

The vote set up what promised to be a major clash with the Senate and dashed hopes for passage this year of a new five-year farm bill.

> **Sen. Stabenow, chairwoman of the Senate Agriculture Committee, called it a 'monumental waste of time.'**

The vote was 217-210, largely along party lines.

Republican leaders, under pressure from Tea Party-backed conservatives, said the bill was needed because the food stamp program, which costs nearly $80 billion a year, had grown out of control. They said the program had expanded even as jobless rates had declined with the easing recession.

"This bill eliminates loopholes, ensures work requirements, and puts us on a fiscally responsible path," said Rep. Marlin Stutzman, R-Ind., who led efforts to split the food stamps program from the overall farm bill. "In the real world, we measure success by results. It's time for Washington to measure success by how many families are lifted out of poverty and helped back on their feet, not by how much Washington bureaucrats spend year after year."

Even with the cuts, however, the food stamp program would cost more than $700 billion over the next 10 years.

Republicans invoked former President Bill Clinton in their defense of the bill, saying that the changes were in the spirit of those that he signed into law in 1996 that set work requirements for those who receive welfare.

But Democrats, many of whom held up pictures of people they said would lose their benefits, called the cuts draconian and said they would plunge millions into poverty.

"It's a sad day in the people's House when the leadership brings to the floor one of the most heartless bills I have ever seen," said Rep. James McGovern, D-Mass. "It's terrible policy trapped in a terrible process."

The measure has little chance of advancing in the Senate, and Sen. Debbie Stabenow, D-Mich. and the chairwoman of the Senate Agriculture Committee, called it "a monumental waste of time."

The bill, written under the direction of the House majority leader, Eric Cantor, R-Va., would cut $40 billion from the food stamp program over the next 10 years. It would also require adults between ages 18 and 50 without minor children to find a job or to enroll in a work-training program in order to receive benefits.

It would also limit the time those recipients could get benefits to three months. Currently, states can extend food stamp benefits past three months for able-bodied people who are working or preparing for work as part of a job-training program.

> **According to the Congressional Budget Office, nearly 3 million people would be removed from the food stamp program under the House bill starting next year. The budget office said after that, about 3 million a year would be cut off from the program.**

"This bill makes getting Americans back to work a priority again for our nation's welfare programs," House Speaker John A. Boehner said.

The bill would also restrict people enrolled in other social welfare programs from automatically becoming eligible for food stamps.

In addition, the legislation would allow states to require food stamp recipients to be tested for drugs and to stop lottery winners from getting benefits. The Senate farm bill also contains a restriction on lottery winners.

Critics of the measure said the cuts would fall disproportionately on children.

"Yes, the federal government has budget problems, but children didn't cause them, and cutting anti-hunger investments is the wrong way to solve them," said Bruce Lesley, president of First Focus Campaign for Children, a child advocacy group.

According to the Congressional Budget Office, nearly 4 million people would be removed from the food stamp program under the House bill starting next year. The budget office said after that, about 3 million a year would be cut off from the program.

The budget office said that, left unchanged, the number of food stamp recipients would decline by about 14 million people - or 30 percent - over the next 10 years as the economy improves. A Census Bureau report released Tuesday found that the program had kept about 4 million people above the poverty level and had prevented millions more from sinking further into poverty. The census data also showed nearly 47 million people living in poverty - close to the highest level in two decades.

Historically, the food stamp program has been part of the farm bill, a huge piece of legislation that had routinely been passed every five years, authorizing financing for the nation's farm and nutrition programs. But in July, House leaders split the bill's farm and nutrition sections into separate measures, passing the farm legislation over Democrats' objections.

The move came after the House rejected a proposed farm bill that would have cut $20 billion from the food stamp program. Conservative lawmakers helped kill the bill, saying the program needed deeper cuts.

Roof decks, from Page 1

able solely for use by residents, and never to be used to host social gatherings.

"Based on recent events, the city of Boston has expressed serious concerns about the size and use of FSILG residential facilities and the use of non-permitted roof decks," the email reads. "The City has put MIT and the AILG on notice about these concerns and has asked that we address them immediately and reconvene with the City in one month to demonstrate progress on implementing proper safety measures for roof deck access and the size of social events."

To review criterion for permitted assembly size, all property owners must submit documentation to their respective city for review. If the documentation is not submitted, including egress plans and how the numbers were derived, any number of guests beyond the current residential occupancy listing may be prohibited.

No matter what the occupancy listing, until the building owners of roof decks also supply supporting documents that a permit was pulled at the time of construction and that it meets the codes in the place at the time that it was built. Social events will only be permitted if higher levels of assembly codes are met, including but not limited to, elevator access, emergency lighting, and two points of egress. Because very few FSILG roof decks meet these specifications (most houses do not even have elevators), it is unlikely that many of them will be up to code to be cleared for use during social gatherings.

—Stan Gill

Regulatory issues

JPMorgan is falling from favor

By Jessica Silver-Greenberg and Ben Protess
THE NEW YORK TIMES

NEW YORK — In a 50th-floor conference room overlooking Central Park, JPMorgan's board members had a pressing question about regulatory problems that have dogged the bank for more than a year: Are we done yet?

In short, according to people briefed on Monday's meeting, the answer was no.

The board — which at that meeting approved $1 billion in fines to resolve investigations into an embarrassing trading loss in London as well as an inquiry into its credit card products — discussed looming problems.

Also that day, the nation's commodities trading regulator, which is investigating whether the London losses manipulated the market, warned that it intended to file an enforcement action against the bank after settlement talks broke down.

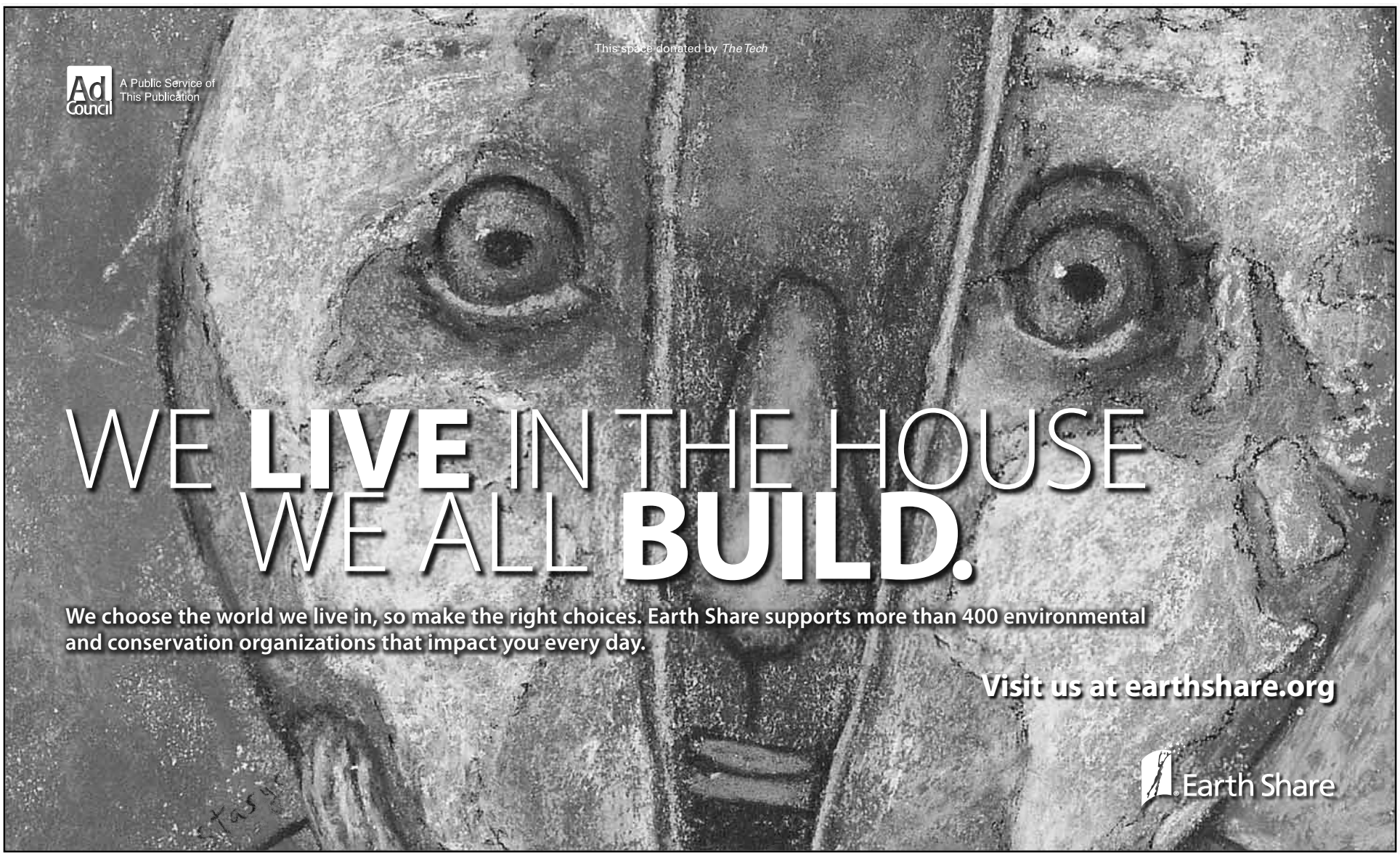
Even as regulators Thursday announced a settlement over the "London whale" trading loss, the weariness expressed at the board meeting underscored the bank's stunning fall from favor. JPMorgan emerged from the financial crisis healthier and more profitable than its rivals, and chief executive Jamie Dimon was hailed as a wise and responsible manager.

In just 18 months, however, JPMorgan has swung from Washington's favorite bank to financial punching bag.

The bank is facing scrutiny from at least seven federal agencies, several state regulators and two foreign nations.

The Consumer Financial Protection Bureau, the people briefed on the matter said, is ramping up an investigation into the bank's debt collection practices.

Investigations further outside the public spotlight also came into focus at the meeting. The bank's lawyers, the people said, briefed the board about mounting scrutiny of JPMorgan's dealings with foreign banks vulnerable to money laundering.



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Newton, MIT VP of RD, is retiring

Newton, from Page 1

ing outside of the United States capable of making gifts $5M+ to MIT," according to the OGI site.

Prior to joining MIT in 2007, Newton served as Harvard Medical School's dean for resource development and alumni relations. Previously, he was also associate director for foundation and corporate relations at Johns Hopkins University from 1989 to 1993, after which he served in various resource development roles at the University of Miami.

In his email, Reif encouraged the community to help in the search for the next VP for Resource Development by email (*rdvpsearch@mit.edu*) or by letter (Room 3-208).

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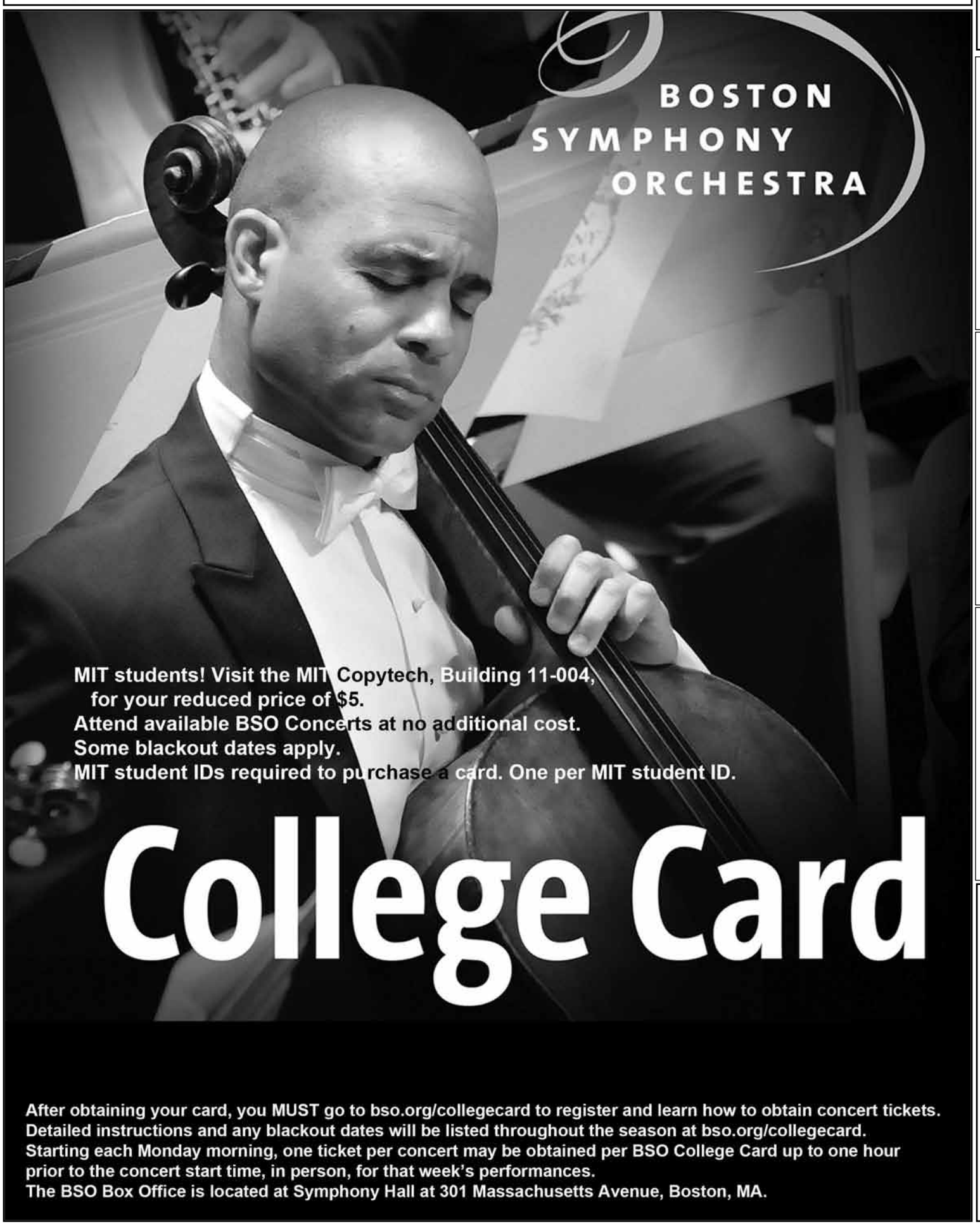

Solution to Crossword

from page 7

H	I	G	H	C		T	W	A	S	
U	N	D	E	R		E	A	C	H	
G	R	A	D	E	O	N	T	H	E	C
H	E	Y		O	V	A	T	E		O
			G	L	E	N			I	R
C	O	R	N	E	R	T	H	E	M	A
E	L	I	A	S			O	P	A	L
L	I	S	T		A	R	R	A	Y	
E	V	E		O	V	I	D			M
B	E	N	D	S	O	M	E	O	N	E
			R	A	N			N	O	S
S	H	E	I	K		B	A	S	I	S
T	A	K	E	A	N	E	X	T	R	A
A	L	C	S		B	R	E	A		G
B	O	O	T		C	M	D	R		E

U	C	T	U	R	N	S		
C	U	R	V	E				
E	A	N						
T	H	E						
A	L	A						
S	T	E	M					
A	I	N	E					
E	A	R						
P	T	A						
R	A	T	U	R	N			
G	A	Z	E	D				
P	O	X	Y					

Solution to Sudoku

from page 7

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

Solution to Techdoku

from page 7

1	6	2	4	5	3
3	2	4	6	1	5
5	4	6	2	3	1
6	5	1	3	4	2
4	3	5	1	2	6
2	1	3	5	6	4

Are you dying to tell someone your latest ephiphany?

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VP of HR steps down

Alden praised for years of service

Alden, from Page 1

the community. With this footprint, the HR leadership team is committed to moving forward while providing the best services possible to the community."

Alden reflects that "it has been an honor to work here at MIT." She plans to remain in close contact with the MIT community going forward. "We hope that she will remain connected to us as part of the MIT family," said Ruiz.

A pricey career fair

Imbalance of industries apparent

Career Fair, from Page 1

zations. On the contrary, the cost of sponsorship at MIT's career fair is determined solely by the level of involvement.

For those who are disappointed by the lack of balance at today's career fair, there will be more targeted career fairs coming up throughout the year. In fact, some schools are not even hosting career fairs this term — Yale substituted their large traditional career fair with mini-sessions targeted towards specific industries after evaluating feedback from both employers and students. It is clear that MIT's big fall career fair is not the only opportunity to find a job.

January Scholars in France

Immerse yourself in the cultural life of Paris! IAP January 2014

MIT's Foreign Languages and Literatures invites undergraduates to apply for January Scholars in France. This non-credit program will allow up to ten MIT undergraduates to experience two weeks of tutored immersion in the cultural life of Paris, January 7-22, 2014. Airfare, lodging, guided tours, and field trips costs are covered by MIT.

Apply by October 11, 2013!

Applications are open to MIT undergraduates who have completed French IV or above at MIT. The award will be based on a demonstrated commitment to French Studies at MIT. Preference will be given to French minors and concentrators.

Applications: http://jsf.mit.edu
More information: Foreign Languages & Literatures 14N-305 or email lhickler@mit.edu.

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9/8 11/8 13/8 15/8

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(two men in a restaurant)

Simplicio: "What will you have, my friend ?"

Sagacio: "The dogmatists would have me swallow relativity. But I'll have undulatory propagatiion . . . with extra ketchup."

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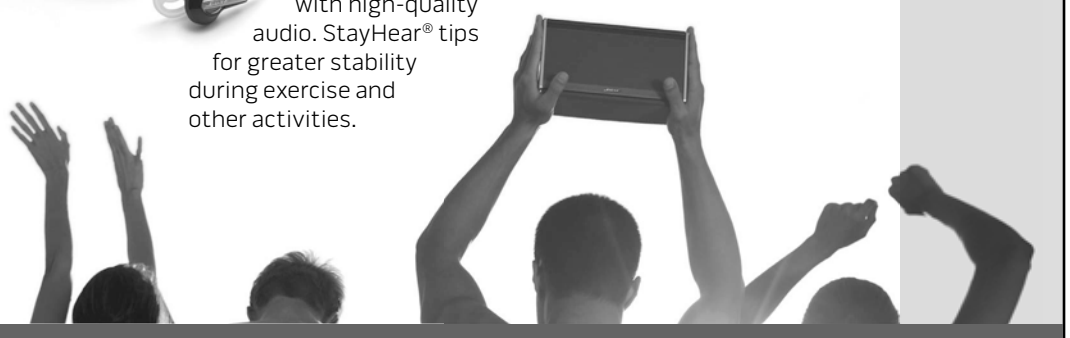

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Field hockey team beats Lasell College

Duffy, Teplensky score early in 9-0 shut out; ledger improved to 6-0

By Mindy Brauer
DAPER STAFF

A pair of first-half goals by Molly K. Duffy '14 and Michelle H. Teplensky '14 helped propel the nationally-ranked No. 19 MIT field hockey team to a 9-0 victory over Lasell College on Tuesday night. The Engineers saw their ledger improve to 6-0 on the year while the Lasers' record dipped to 3-3.

A defensive battle ensued until MIT converted a penalty corner in the 56th minute.

MIT opened the scoring after 2:26 expired when Duffy knocked in the rebound of sophomore Molly C. McNamara's shot at the near post. McNamara followed with a strike of her own just over three minutes later as she redirected a centering pass from Teplensky and quickly got the ball past sophomore goalie Taylor Sheehan. The scoring tandem of Duffy and McNamara returned in the 17th minute when McNamara's feed into the arc was tipped in by Duffy at the near post. Teplensky accounted for the Engineers' next two goals as her first was a rebound off Elizabeth A. Dethy's '15 shot while her second was set up by Dethy on a penalty corner.

With just under 12 minutes remaining in the first half, Lasell sophomore Nikita Soares made a deep run into MIT's defensive end. The threat drew goalie Evie S. Kyritsis '16 off her line but she stopped the attack by kicking the ball away in the middle of the arc.

Kyritsis stopped the attack by kicking the ball away in the middle of the arc.

Rachel H. Rotteveel '17 gave the Engineers a 6-0 advantage almost four minutes into the second stanza courtesy of a blast just inside the arc on the near side. A defensive battle ensued until MIT converted a penalty corner in the 56th minute. Olivia C. Massey '16 sent a pass to classmate Siobhan K. Rigby '16 at the top of the arc who put a blast to the nearside of the cage. Krishna L. Jaitly '17 recorded the first goal of her career with 3:30 left to play as her one-timer from the top of the arc made its way through traffic. The hosts wrapped up the scoring with a 1:04 on the clock courtesy of a Massey effort that was set up by Isabella D. DiDio '16 during a scramble in front of the net.

Despite several deep balls from Lasell, they were unable to put a shot on goal as Kyritsis came away with her third shutout of the season. Sheehan finished with 19 saves while Jamie Trevino picked up a defensive save late in the game.

Next up for MIT will be its NEWMAC opener on Saturday, Sept. 21 at Springfield College.

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Bills expected to beat Jets in New York showdown

Seahawks and Packers should have uncontested wins against Bengals and Jaguars

NFL, from Page 20

Titan's defense played incredibly well against Houston until the very end of the game. If they want to be a complete team, they need Jake Locker to take some chances and move the ball more than he has been doing. Locker didn't turn the ball over, but he failed to throw for 150 yards on 30 attempts. Tennessee would like to see him take his game to the next level moving forward.

Prediction: 23-13 Chargers

Arizona Cardinals @ New Orleans Saints

Sunday, Sep 22 1:00 P.M.

The Cardinal's defense played well against Detroit, as they usually do, and Carson Palmer did enough to keep them in the game until Rashard Mendenhall's game-winning touchdown run. Arizona could be a dangerous team this season due to their strong defense, and if Palmer can take care of the ball and put up 20 points or so every week, Arizona could exceed expectations this year. The Saints still haven't looked exactly like their old high-powered selves, but they're getting there. Drew Brees threw for over 300 yards, but they only managed one touchdown and 16 points total. Their defense that was criticized last year only gave up seven points (Drew Brees also threw a pick-six) to the dangerous Buccaneers' offense, directly leading to their division win. I don't expect things to change this week against the Cardinals.

Prediction: 27-10 Saints

Tampa Bay Buccaneers @ New England Patriots

Sunday, Sep 22 1:00 P.M.

Josh Freeman was terrible last week against the Saints. He was only 9-22 with a touchdown and an interception, so he really needs to do a lot more for the Tampa Bay offense. RB Doug Martin can only do so much before defenses start focusing in on him and shutting him down. After his outstanding rookie season, Freeman has failed to impress and needs to regain his form for the Bucs to succeed. The Patriots have not looked like themselves this season. They lack weapons at wide receiver for Tom Brady to work with after losing Wes Welker to the Broncos in the offseason and Danny Amendola in week one. They have had big problems scoring this season and it has led to two nail-biters against the Bills and Jets. New England is lucky though, because Tampa Bay also has a tough time scoring. If Brady can figure out how to get about 17 points, the Pats should pull it out.

Prediction: 20-10 Patriots

Green Bay Packers @ Cincinnati Bengals

Sunday, Sep 22 1:00 P.M.

Aaron Rodgers put on a show last week against Washington, throwing for almost 500 yards and 4 touchdowns. The Packers looked like the Packers of old, scoring with ease and playing lockdown defense. They allowed Washington to score in the 2nd half, but that was long after the game was over. Even their running game was strong despite Eddie Lacy going down early in the game with an injury. It looks like the Packers may be about to hit their stride early in the season. The Bengals beat the Steelers last Monday night. It was a tough defensive struggle, but that's the way this new Bengals team wins. Andy Dalton manages the game well and A.J. Green is developing into one of the NFL's best receivers. Nevertheless, they will have a tough time stopping Green Bay this week.

Prediction: 30-13 Packers

St. Louis Rams @ Dallas Cowboys

Sunday, Sep 22 1:00 P.M.

St. Louis pulled themselves together too late against Atlanta last week, coming up just short with their rally. Sam Bradford had a huge day, but they just didn't get enough production from their rushing game to beat the heavily favored Falcons. They also had a hard time stopping Julio Jones, as he almost got 200 receiving yards on the day. They will need to contain Dez Bryant against Dallas if they want to have a chance to win. The Cowboys fell to the Chiefs despite Bryant having a huge game of his own because RB Demarco Murray struggled to find room to run. This game should be fairly high scoring as both teams have high powered passing attacks.

Prediction: 27-24 Rams

Cleveland Browns @ Minnesota Vikings

Sunday, Sep 22 4:05 P.M.

Cleveland is starting a new quarterback this week against the Vikings after allowing Brandon Weeden to be sacked five times in their game against Baltimore. Weeden was constantly under pressure through the first two weeks of the season, so the Browns will need to find a way to protect QB Brian Hoyer this week if they want a chance. The Vikings have one of the premier pass rushers in the league in Jared Allen, who has to be excited to face this offensive line. Minnesota lost a nail-biter last week against Chicago, but they head back to Minnesota this week where Christian Ponder plays significantly better. Expect Adrian Peterson to struggle a bit against the Browns' rush defense (they're better than you'd think), but the Vikes should eventually pull it out.

Prediction: 17-10 Vikings

Atlanta Falcons @ Miami Dolphins

Sunday, Sep 22 4:05 P.M.

Sunday, Sep 22 4:05 P.M.

Atlanta looked amazing in the first half last week and Matt Ryan had an incredible day. He threw for almost 400 yards and two touchdowns as he decimated the St. Louis secondary. Atlanta will be even more dangerous as the season goes on when WR Roddy White returns. On the flip side, Miami QB Ryan Tannehill played very well against Indianapolis, throwing for over 300 yards. More impressively, the Dolphins beat the Colts in Indianapolis, a task that has proven to be very difficult during Andrew Luck's tenure as Colts QB. Their defense should give Matt Ryan a fairly hard time, but I still think the Falcons simply have too many offensive weapons for the Dolphins to keep up.

Prediction: 30-17 Falcons

Buffalo Bills @ New York Jets

Sunday, Sep 22 4:25 P.M.

E.J. Manuel has proven that he can be an effective NFL quarterback. After nearly beating division rival New England in his first start, he led a game-winning drive to beat the Carolina Panthers last week, drilling a touchdown with only two seconds remaining. He has been doing a good job of managing the game and avoiding turnovers, something the Bills have sorely needed. The Jets come off their game against the Patriots with some questions regarding their rookie QB Geno Smith. Smith threw three interceptions at crucial points in the game and didn't look comfortable all night. On the plus side, their defense played very well, and it almost resulted in a victory. I expect them to play well again, but until Smith proves that he can read defenses correctly and take care of the ball the Jets will have a hard time getting wins.

Prediction: 20-10 Bills

Jacksonville Jaguars @ Seattle Seahawks

Sunday, Sep 22 4:25 P.M.

Jacksonville didn't have much of a chance against Oakland last week, and QB Chad Henne was sacked five times. He had a fairly decent game overall, but it definitely was not enough to overcome some of the mistakes made by the team, one of which was a costly safety. They did a good job holding the Raiders to field goals, but they still allowed them to move the ball too easily. Seattle is on the opposite end of the spectrum, fresh from completely dominating one of the premier teams in the league last week in San Francisco. In all facets of the game, the Seahawks were simply superior. The raucous crowd was incredibly jarring for the 49er's offense and it led to many turnovers. Russell Wilson only threw the ball 19 times, but it was enough to win comfortably while eating up the clock with the run game. This one won't be remotely close, especially since it's in Seattle.

Prediction: 34-6 Seahawks

Indianapolis Colts @ San Francisco 49ers

Sunday, Sep 22 4:25 P.M.

Andrew Luck played very well in his game against the Dolphins, but not quite well enough for the victory. He had a chance to lead the Colts on a game-winning drive, but couldn't get a completion. His task is not easier this week, facing an angry 49er team on the road. He will be under pressure all game from the San Francisco defensive front. Colin Kaepernick struggled against the Seahawks and he will look to get back on track against the much weaker Colts secondary. They should be able to get back on track this week and attempt to keep pace with the Seahawks.

Prediction: 27-14 49ers

Chicago Bears @ Pittsburgh Steelers

Sunday, Sep 22 8:30 PM

Chicago has started the season off with two close wins, and Jay Cutler has played well on the young season. His favorite receiver, Brandon Marshall, is also having a good start to the season and Pittsburgh will have a hard time dealing with him. Especially now that Matt Forte is healthy, Chicago has a very dangerous offense. Pittsburgh has gotten off to a slow start this season, and they have been struggling to score. They are feeling the effects of their loss of WR Mike Wallace to the Dolphins in free agency, and the loss of RB Rashard Mendenhall to the Cardinals. This should be a low scoring game, as both teams have good defenses, but the Steelers will not be able to score enough to take the Bears.

Prediction: 20-13 Bears

Oakland Raiders @ Denver Broncos

Monday, Sep 23 8:40 P.M.

Oakland comes into the game going against probably the best team in the league in the Denver Broncos. Terrelle Pryor has been decent as the starter for the Raiders and he is a legitimate threat in the running game. Darren McFadden is a consistently good running back, but the Broncos have one of the best run defenses in the league. They have also scored at least 40 points the last two weeks, and they could potentially do it again this week. They simply have too many weapons at wide receiver for the Raiders to possibly match up. Pair that along with one of the best quarterbacks of all time, and you have a recipe for disaster.

Prediction: 38-13 Broncos

PSG expected to prevail in matchup with Monaco

Bayern Munich and Schalke 04 compete in tournament for Bundesliga title this week

Soccer, from Page 20

team in Italy this year. After selling Edinson Cavani to Paris Saint-Germain, they added lethal players like Gonzalo Higuaín and José Callejón from Real Madrid. Their managerial change has also paid off. Under Rafael Benítez, Napoli has been on fire, going three for three and scoring 9 goals in the process while only conceding 2. Napoli currently sits on top of the Serie A as the one of the two teams winning its first three matches (the other team is AS Roma). Milan, on the other hand, has not been on its top form. They have only collected 4 points in 3 matches (LWD). The only home match they played, they won 3-1 so that could give them hope against Napoli. However, Napoli pulled off a 4-2 victory on their only away match, so they are quite lethal on the road as well. With Napoli on fire and Milan looking to return to winning form, this match of two of Italy's greatest squads will definitely be filled with goals. In the end, Napoli seems like the better side with all the momentum they have built and they will pull off a win.

3. Bayern Munich @ Schalke 04

Bayern Munich has won four of their five matches and only tied against Freiburg, 1-1. They've only conceded two goals. Their biggest opponent for the Bundesliga title, Borussia Dortmund, has managed to go five for five. Therefore, Bayern Munich will not want to drop off points at Gelsenkirchen and give Dortmund the chance to open the gap. Their opponents for the match, Schalke 04 have just recently learned to maintain a winning form. In their first three matches, they only picked up one point and suffered a 4-1 defeat to Wolfsburg and a 2-1 defeat to Hannover (both matches were away matches). Schalke managed to string together two victories in the past two weeks against Bayer Leverkusen and Mainz 05. Thus, Schalke 04 has picked up some momentum, but it will not be enough to upset Bayern Munich. Nevertheless, this match of two giants of Germany will definitely produce a great match-up.

4. Monaco @ Paris Saint-Germain

Ligue 1 in France will allow us to watch one "expensive" soccer match. The two big money spenders, Monaco and Paris St. Germain (PSG) will face off in Paris. Both teams have excellent attacking power, but PSG has failed to fully utilize this and ended up tying Montpeiller and Ajaccio in the first two weeks. However, they are now on a roll with three wins in a row. Monaco only tied once and is two points ahead of PSG to sit on top of the league. This match will be important as it features the two biggest challengers of the Ligue 1 title. If PSG manages to pull off a win, they will pass Monaco in the league table. While Monaco will be looking to at least end in a draw, PSG will be on the attack with the support of the crowd behind them. Both sides will have to be cautious when defending because of the abundance of quality strikers on both teams. There will be goals on both sides, but eventually Paris St. Germain will be closer to the win.

5. Galatasaray @ Besiktas

This Sunday, Turkey will be fixed on Istanbul as two Istanbul and Turkish giants battle it out in a derby. Galatasaray, the reigning champions for the past two seasons, will face off against a revamped Besiktas. Galatasaray started off with a win, but then only managed to string together three draws. Their last draw was unlucky as they failed to make chances pay and two of their balls blasted back off the crossbar. They played extremely dominantly but could not get the win. Besiktas has undergone serious changes. They've changed structurally by appointing a "Soccer Director" in charge of all the transfers and how the team does. They also appointed the eccentric Croatian Slaven Bilic as their manager. The transfers have quickly made an impact as well. As a result, they have gone four for four and have picked up serious momentum. In the past, even when Besiktas was in the lead, the fans were nervous if the team could maintain the score. Now, even if the team falls back, the fans do not worry about coming back because this new squad radiates confidence. What's more, it is speculated that Besiktas will have around 70,000-80,000 fans supporting them in their temporary home stadium (as their original stadium is being renovated). Their fans are known for their creativity and passion so fan power will definitely help out Besiktas. It will be a tightly contested match and Besiktas will have the comfort of being 3 points ahead and will not look to close the gap. If they can't win, they will look to protect the draw. Therefore, a tie seems the most reasonable result, though it can go either way. Whatever the score, this will be a great match with great soccer played and the fans will also be a joy to watch. Make sure to watch this one.

SPORTS

Saints to dominate week 3

Giants look for redemption after last week

By Austin Osborne
SPORTS EDITOR

Houston Texans @ Baltimore Ravens
Sunday, Sep 22 1:00 p.m.

Houston pulled off an overtime comeback last week over the Titans after a great game from their rookie WR DeAndre Hopkins. Hopkins caught the game-winning touchdown from Matt Schaub in overtime, giving him over 100 yards receiving on the day. The Texans' running game was dominant as usual, with Ben Tate and Arian Foster combining for over 150 yards, while Schaub threw for almost another 300. Schaub had a tough time holding onto the ball however, throwing 2 interceptions. The Ravens had an ugly game against Cleveland last week, scoring both of their touchdowns in the second half. On the plus side, they only allowed six points, a much better defensive showing than their game against Denver in week one. RB Ray Rice went down with an injury though, which is an enormous blow to the Baltimore offense. They will find it tough to get anything going against Houston's defense all game.

Prediction: Texans 24-13

New York Giants @ Carolina Panthers
Sunday, Sep 22 1:00 p.m.

In the battle of the Manout victorious. Eli threw four interceptions and looked completely uncomfortable for the entire game. The Giants' running game didn't look great either, as David Wilson only managed 17 yards on seven carries. Defensively, they were also a mess. They gave up 41 points and never really made the game close. They will want to put all that behind them as they head to Carolina. The Panthers suffered a last second loss to the Bills after playing a pretty good all-around game. Cam Newton played well, throwing for two touchdowns and over 225 yards while DeAngelo Williams ran for 85. They will have a tough time against the embarrassed Giants, but they should keep it close with their rushing attack. I expect Eli to get back on track this week and pull out the victory.

Prediction: 23-17 Giants

Detroit Lions @ Washington Redskins
Sunday, Sep 22 1:00 p.m.

Detroit killed themselves with penalties last week in their loss to Arizona, something they are prone to do. Despite a huge game by WR Calvin Johnson, they allowed Arizona RB Rashard Mendenhall to score late in the game, leading to their loss. The Lions have never been a rush- to get a little bit more production out of their backfield, especially from their new acquisition Reggie Bush. Washington played Green Bay last week and they were never in it from the beginning. Their secondary was shredded by Aaron Rodgers, and they need to work on their coverage schemes after giving up huge passing yardage two weeks in a row. With the Lions coming to town, I expect Stafford to continue the trend and put a lot of points on the board. Even after his 3 TD performance, it still needs to be asked whether or not RG3 can keep it up.

Prediction: 31-24 Lions

San Diego Chargers @ Tennessee Titans
Sunday, Sep 22 1:00 P.M.

The Chargers upset Philadelphia on a last second field goal last week, and Philip Rivers put the talk that he couldn't perform in the clutch to rest, at least for a week. He played outstandingly the entire game, especially on third downs as the Chargers converted on 66% of their opportunities. Antonio Gates also looked like he found the fountain of youth, racking up almost 125 receiving yards. He has always been a great safety valve for Rivers, and now that he is healthy he will give opposing defenses headaches. The

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UPCOMING HOME EVENTS

Saturday, September 21

Sailing vs. Hatch Brown Trophy	*9 a.m., Charles River*
Women's volleyball vs. Springfield College	*1 p.m., Rockwell Cage*
Women's soccer vs. WPI	*1 p.m., Steinbrenner Stadium*

Club soccer resumes

Napoli to face Milan in close match

By Ali Soylemezoglu
SPORTS STAFF

After a week off from club soccer due to international fixtures, the European soccer leagues have picked up where they left off with some action packed matches. Barcelona went up 2-0 against Sevilla in the beginning, but Sevilla managed to make the score 2-2 by injury time. When it was almost certain Sevilla was going to get away with the one point, Alexis Sanchez of Barcelona scored an extremely late winner (90+3'). Borussia Dortmund managed to retain their winning streak by overcoming Hamburg 6-2 in a match where Hamburg had come back from 2 down to equalize the score at 2-2. In England, Jose Mourinho suffered his first defeat in his second stint with Chelsea. Chelsea missed many chances to score and Everton managed to score on their first big chance at goal, so it was an unlucky day for the skillful Chelsea squad. In Italy, Napoli went up to three victories in three matches while Inter and Juventus tied 1-1 bringing both their points up to 7 in three weeks. As interesting as this past week's matches were, this Sunday will bring even more soccer delight with several big matches to look forward to. Here is a brief list:

1. Manchester United @ Manchester City:

Sunday morning kicks off with an incredible derby match-up in which Manchester United faces off Manchester City to see who the better Manchester is for the time being. Neither team got off to a good start in the league with each team gaining 7 points out of a maximum of 12 points in the first four matches. Manchester suffered a loss away at Liverpool and tied at home with Chelsea. In both matches, United displayed good attacking soccer but failed to convert their chances into goals. This past week, David Moyes earned his first victory at Old Trafford against Crystal Palace. Manchester City won both matches they played at home, but on the road they suffered a 3-2 loss to Cardiff and tied Stoke City 0-0. In the matches they played at home, Manchester City was dominant against a ten-man Newcastle United side, but started off slow in a 2-0 victory against Hull City, only managing to pull through in the second half. Manchester City has scored 8 goals and conceded 3 while Manchester United scored 6 but conceded only 2 goals.

This battle of the Manchester giants will definitely delight soccer fans all around the world. Manchester City seems to come off strong on their home ground so they should pull through in the end, although it wouldn't be surprising if the game ended in a draw.

2. Napoli @ Milan

Napoli is perhaps the flashiest

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CHRYSLER

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Information Session: Thursday, Sept 19th

If you are interested in joining Chrysler, it is highly recommended that you attend one of the information sessions.

- Hear first-hand experiences from M.I.T alums, important contributors in developing Chrysler's alternative propulsion and autonomous systems
- Vehicle on display outside Student Center
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Thur., SEPT 19th

9:00 am to 10:00 am

Room #E51-057

Additional information session through Sloan School on Wed. Sept. 18th 11:45 am-12:45 pm, RSVP on CAREER CENTRAL