Hurricane Sandy’s dark clouds loom over Boston on Monday afternoon. Winds were consistently gusting over 45 mph on Monday, and all MBTA services were suspended after 2:00 p.m.

\section*{Fiscally cliff could lower MIT funding
Expected 8–10 percent research funding cuts unless Congress revises
\begin{flushright}
\textit{By Anne Cai}
\end{flushright}

The potential “fiscal cliff” at the end of 2012 would slash the U.S. federal budget across the board, hitting the nearly $475 million MIT receives from the government each year for research. The Institute could see up to 10 percent cuts in its federal research funding, according to Vice President for Research and Associate Provost Claude R. Canizares.

Congress passed the Budget Control Act of 2011 as a result of highly contentious and partisan budget negotiations, intended to force legislators to pass a responsible budget. In previous years, Congress had approved raising the debt ceiling with less turmoil, but the Budget Control Act of 2011 came with new strings attached: if the Joint Select Committee on Deficit Reduction (“the supercommittee”) could not agree on a $1.2 trillion deficit reduction package by Nov. 23, 2011, or if its proposal was voted down by Congress, then automatic budget cuts known as “sequestration” would become effective. Sequestration involves funding cuts across the board, about half of which would

\section*{Paintballs may deflect an incoming asteroid
With 20 years notice, paint pellets could cause an asteroid to veer off its course
\begin{flushright}
\textit{By Jennifer Chu}
\end{flushright}

In the event that a giant asteroid is headed toward Earth, you’d better hope that it’s blindingly white. A pale asteroid would reflect sunlight — and over time, this bouncing of photons off its surface could create enough of a force to push the asteroid off its course. How might one encourage such a deflection? The answer, according to an MIT graduate student with a volley or two of space-launched paintballs.

Sung Wook Paek SM ’12, a graduate student in MIT’s Department of Aeronautics and Astronautics, says if timed just right, pellets full of paint powder, launched in two rounds from a spacecraft at relatively close distance, would cover the front and back of an asteroid, more than doubling its reflectivity, or albedo. The initial force from the pellets would bump an asteroid off its course; over time, the sun’s photons would deflect the asteroid even more.

Paek’s paper detailing this unconventional strategy won the 2012 Move an Asteroid Technical Paper Competition, sponsored by the United Nations’ Space Generation Advisory Council, which solicits creative solutions to space-related problems from students and young professionals. Paek presented his paper this month at the International Astronautical Congress in Naples, Italy.

The challenge put forth by this year’s UN competition was to identify novel solutions for safely deflecting a near-Earth object, such as an asteroid. Scientists have proposed a wide variety of methods to avoid an asteroid collision. Some proposals launch a projectile or spacecraft to collide with an incoming asteroid; the European Space Agency is currently investigating such a mission.

Other methods have included detonating a nuclear bomb near an asteroid or equipping spacecraft as “gravity tractors,” using a craft’s gravitational field to pull an asteroid off its path.

Paek’s paintball strategy builds on a solution submitted by last year’s competition winner, who proposed deflecting an asteroid with a cloud of fish. Paek came up with a similar proposal, adding paint to the pellets to take advantage of solar radiation pressure — the force exerted on objects by the sun’s photons. Researchers

\section*{IN SHORT

UROP applications for credit and volunteer are due Wednesday! Make sure to fill one out and require with an Add/Drop form!

Second quarter PE classes start today. Be sure to claim your spot!

The Spring Weekend survey is now open! Vote for which artist you want to play at MIT.

\section*{Paintball, Page 11

MIT closed on Monday for hurricane
Boston prepared for Sandy; MBTA closed
\begin{flushright}
\textit{By Jessica J. Pourian}
\end{flushright}

MIT was closed yesterday due to considerations for Hurricane Sandy. There were no classes, and all non-essential personnel were off work for the three shifts of the day. While most of MIT Medical was closed, Urgent Care remained open.

Mcgormick and Baker Dining were open with limited service yesterday evening, though Simmons Late Night was closed. The rest of the dining halls functioned as usual.

The MBTA shut down service at 2 p.m. Monday, and all U.S. markets closed in preparation for the storm. This was the first market-wide shut down since September 2001. Markets will remain closed today, though the MBTA is still planning to operate as of this writing.

The Tech has compiled a Sandy FAQ which can be found at http://techblogs.mit.edu/news/2012/10/hurricane-sandy-faq-how-not-to-get-eaten-by-your-lambate.

The Institute announced its closing at 8:15 p.m. Sunday through http://emergency.mit.net, MIT’s website for communicating campus emergencies. Alerts were sent to cell phones around

\section*{Sandy, Page 12

\section*{MITDEFEATHS AN UNDEFEATED TEAM
How is MIT football faring this season?

\begin{flushright}
\textit{SPORTS, p. 8}
\end{flushright}

\section*{NBA PREDICTIONS
The Tech takes on a different kind of forecast.

\begin{flushright}
\textit{SPORTS, p. 13}
\end{flushright}
In Turkey, break from the past plays out in the streets

ISTANBUL — At a reception Monday evening at the president’s mansion to celebrate Turkey’s founding 89 years ago, something previously unheard of occurred: The country’s top military commander stood alongside the wives of the president and prime minister, even while the women wore Islamic headscarves.

In past years the military elite would never have stood side by side women wearing a symbol long at the center of Turkey’s turbulent relationship with the public. These men were heirs to the traditions of Turkey’s secularist founder, Mustafa Kemal Ataturk, who banished religion from public life. They had for years refused to attend such gatherings — in protest of the headscarf.

But the scene from the reception Monday was broadcast on television, and for many Turks the striking image underscored an apparent break from the past when civilian leaders were subordinated to the military, and Islam was filtered from public life.

“The Turkish army is now withdrawing from politics,” said Taha Akyol, a columnist for Hurriyet, a Turkish daily newspaper.

“There was a clear signal of growing dissatisfaction with Italy’s political class, even as it continued to push for rapid adoption of a European fiscal and banking union.

“With regard to the European agenda, Spain and Italy are more united than ever,” Rajoy said at a joint news conference with Monti.

Rajoy had been under pressure to tap a bond-buying program announced by Mario Draghi, the ECB president, in early September. But he has refused to leap at the opportunity, and Monday he said that Madrid would ask for such funding only when it was “no longer convenient” to do so. Monti also dismissed the idea that Italy would need such help to meet its immediate refinancing obligations.


US tries to coordinate anti-militant push in Mali

ALGIERS, Algeria — Secretaries of State Hillary Rodham Clinton and John Kerry arrived in Algeria on Monday as the United States sought to coordinate support for an emerging international effort to push Islamist militants out of northern Mali.

“One of the things the secretary wants to talk about is how we would see this working,” a senior State Department official said before a scheduled meeting between Clinton and the Algerian president, Abdelaziz Bouteflika.

An array of Islamist militant groups have seized control of parts of northern Mali, including al-Qaeda in the Islamic Maghreb. The Algerian president, Abdelaziz Bouteflika.

The election was closely watched in this former Soviet republic of 45 million people, where the Ukrainian Parliament will not be known for several weeks because the Ukrainian election law stipulates that even calling a new election would not help.

“We have systemic problems,” Gross said. “To make a new election with the same rules, you get the same result.”

The precise balance of power in the Ukrainian Parliament will not be known for several weeks because the Ukrainian election law stipulates that even calling a new election would not help.

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attacks during continued holiday truce in Syria

by MacNeil Flanagan

BEIRUT — The declared four-day holiday truce that began in Syria on Friday would be followed by airstrikes, artillery barrages and other firefights around the country, according to the deputy commander of the cease-fire.

In the wake of last year’s civil war, a cease-fire was imposed on Saturday during which a government minister named Al-Awad was interrupted on Mon-

day when a government missile slammed into a minibus about 200 yards away from her.

“I saw how the pieces and a driver with a body full gone,” she said. “How is it that we don’t have any value? Are we not human like other people?”

Just that was one of the at-
tacks this time, as what activists called one of the worst days of air raids against the suburbs of the capital this year, with the uprising being perceived as a peaceful protest movement in March.

The strikes against Hajar al-

Awad left about 100 people dead, according to activists who said it was a result of a change in the government’s policy.

The military also claimed that action against them was in the interest of the government, and, according to the United Nations, it is not likely to be continued.

Lukhbat Braham, the envoy for the United Nations and the Arab League, who tried to negotiate the truce, expressed disappointment that the government has not yet fulfilled its end of the promise.

The two-day stoppage is the first weather-related closure of the year for the country, and it is the first in the first unscheduled trading stoppage since the Sept. 7 terrorist attacks.

Representatives for the exchanges emphasized that the safety of their employees was paramount, relying on skeleton crews to run the exchanges. The board said it had some of its offices were based in evacuated areas of the country, and asked employees to continue working remotely.

Chinese generals promote to lead missile corps

BEIJING — A former deputy chief of the army’s general staff, Li Gen. Wei Fenghe, has been promoted to commander of the 2nd Artillery Corps. The Army Daily, the official newspaper of the People’s Liberation Army, said Monday.

The announcement of the commission, which will oversee the rapid modernization of China’s military, is expected to be an-

ounced after the 18th Party Congress next month.

The promotion had been expected to serve as chief of the corps between the 2006 and 2010, and it did not involve inter-

esting, intended to help pursue terror-

ism, as it had its end on the Sept. 7, 2011.

The 2008 law was challenged by Amnesty International, the Ameri-

can Civil Liberties Union and other groups and individuals, including families and lawyers of those who have been killed under the law.

The government also agreed to a request to grant a cease-fire in the fighting, intended to try to stop the level of vio-

cence, he said.

Brahimi was visiting Moscow and Beijing, the main international backers of President Bashar Assad, ahead of presenting a plan to the Security Council next month to-

ward a negotiated settlement. It would be based on an agreement that all five permanent members of the council stated in the New York Times.

As for the theoretical possi-

bility, she said, “I don’t see a real person who would be subject to a federal judge who could raise an objection.”

Justice Antonin Scalia responded that some laws are beyond judicial reviews.

“We’ve had cases in the past where it is clear that nobody would have standing to challenge what is brought before this court,” he said.

Strangely, the government sought to introduce evi-

dence in a criminal proceeding that it had gathered under the law. Just-

ice Ruth Bader Ginsburg said that the evidence was likely only the nature of the surveillance.

“And what theoretical possi-

bility,” she said, “that we don’t see a real person who would be subject to a federal judge who could raise an objection.”

Justice Elena Kagan pressed Ver-

rilli on whether he or any other com-

petent and ethical lawyer should communi-

cate with clients and sources in the face of the possibility of government surveillance under the 2008 law.

Random House and Penguin to be combined

PARIS — The book publishing industry is getting smaller to get stronger.

Confirmation on Monday that Random House and Penguin will merge narrows the business to a handful of big players, less than a decade after the industry had it down to 20.

Bertelsmann, the owner of Random House, and Pearson, which owns Penguin, said Monday that they had reached an agreement to combine the two houses to create a new summer book publisher in the world.

Citing the deal between the Bertelsmann, of Germany, and Pearson, of Britain, would give the combined companies greater scale to deal with the challenges arising from the growth of e-books and the publishing arms of Amazon.

Together, Penguin Random House would have a global mar-

et share of more than 25 percent, and a book list that includes companies that are the biggest booksellers’ of Penguin and of Grey” and Penguin’s back list of classics from authors including George Orwell.

But e-book sales growing, publishers are increasingly wor-

ried about the leverage wielded by Internet giants like Google, Apple and, especially, Amazon. These companies have huge re-

sources to invest in new technology, including digital sales plat-

forms and algorithms that steer people towards books that match their interests. Their scale gives them the power to negotiate bet-

ter terms on book prices.


Scott Brown pulls out of Senate debate in Massa
comet

BOSTON — Sen. Scott P. Brown’s campaign announced Mon-

day that Brown would not participate in his fourth and fi-

nal debate with Elizabeth Warren, his Democratic challenger, on Tuesday night, citing Hurricane Sandy.

The campaign announced Monday was forward with a political de-

bate when a disaster strikes,” Colin Reid, a spokesman for Brown, said.

The announcement caught the debate sponsors by surprise as well as the moderator, John King of CNN, who had traveled to Boston on Sunday to beat the storm.

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ded to Boston on Sunday to beat the storm.

The campaign sponsors subsequently issued a statement saying Brown would not participate in his fourth and fin-

al debate with Warren, his Democratic challenger, on Tuesday night, citing Hurricane Sandy.

The Warren campaign subsequently issued a statement saying Brown’s decision would not affect its plans.

A poll in the Boston Globe on Monday showed Brown in a dead heat with Warren, a positive turn of events for the Republi-

Can, who had been trailing in most recent polls.

Still, some political experts said Brown’s poll showed him back in the race.

“The polls are way off. It appears he is falling between the cracks, but he could be in a big debate to change the dynamic,” said Rob Gray, a Republican consultant not involved in the race.

—Katherine Q. Seelye, The New York Times
Deaf accessibility at MIT

By Sheila Xu

Last month, I attended MIT’s presidential inauguration hoping to join the celebrations more than anyone else. But most of the time, I found myself left out and merely spectating. I was bombarded by the overwhelming information, and I was not able to celebrate as much as I would have liked to. I can count on one hand the number of deaf faculty members. Ironically, in an inauguration of a university that touted the Institute’s willingness for deaf accessibility, the facilities for deaf accessibility were mostly hit-and-miss.

Prior to attending this inauguration event, I met with Associate Dean of the MIT Student Disabilities Office Kathleen Monagle to discuss what should be done. I told her about my own desire to contribute to the quality of deafness. She assured me that AMPS should have captioned the videos in the inauguration event planning. While I don’t expect every large-scale event to have a real-time captionist/stenographer, and it would be beneficial for both the interpreter and the audience. Monagle, who quipped, “Be proactive, not reactive!”

Of course, the issue of accessibility was not a must for every large-scale event, but what would be beneficial for both the audience and interpreters is not a must for every large-scale event, but all of these seats were already taken by alumni. We were seated in the third row. As the Project 21st advisory Committee to attend that year’s celebration and learn more about President Monagle, “Be proactive, not reactive!”

For a good ten minutes, we stumbled around in a sea of MIT students and faculty. It is also a high-speed engine of innovation and seminal accomplishments. In an effort to prevent this problem from re-occurring, event planners should arrange optimal seating, and make sure that all event staff are aware of the availability of interpreters of hearing and other accessible interpreters.

All videos should be captioned before they are posted. The Academic Computing and Information Service (ACIS) at MIT can offer services.

After the inauguration, MIT posted online media of the key events. Videos of the symposia and the inauguration were readily available from the MIT main website, MITNews, and MIT TechTV. Audio and video clarity were top-notch, but unfortunately, there were no video subtitles available at all. Once again, MIT has failed to live up to its own standards for online media accessibility, further complicating its reputation for inclusiveness in cyberspace — i.e. OpenCourseWare, EdX, etc. in this case. AMPS should have captioned the videos in advance before posting them.

As a deaf student, these are the problems that I encountered during the inaug- ural celebrations. I recommend that the Institute’s event planners contact Dean Monagle in order to learn more about accommodating special needs at future events. Event planners should pay particular attention to the goal of planning events that do not require guests to request special accommodations in advance. Over time, these guidelines should become integrated into the processes of event planning.

The inaugural events showed me that MIT must ensure that it does not alien- ate those with disabilities. To quote Dean Monagle, “Be proactive, not reactive!”

OPINION POLICY

Editors are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman Ashlyn Schalk, Editor in Chief Jessica J. Pourian ’13, Managing Editor Connor Kirschenbaum ’13 and Opinion Editor Andy Liang. All editorial board members choosing to publish their disagreement with the editors will follow suit. MIT support staff often exceed performance standards because of their own pride of workmanship and their desire to contribute to the quality of life on campus.

Access to educational opportunities would be restricted if our voluntary force were not so robust.

If volunteering were absent in higher education, going to college would be a bare experience, devoid of their richness and quality. If students had to pay for all of it, educational opportunities would be severely restricted. If one tried to make a list of volunteer- ership at work, it would soon become clear that it is a lower skill than his or her arm. A force of thousands of staff are involved on a daily basis.

MIT is widely recognized as a meritocracy populated by bright, over-achieving students and faculty. It is also a high-speed engine of innovation and seminal accomplishments. In an effort to prevent this problem from re-occurring, event planners should arrange optimal seating, and make sure that all event staff are aware of the availability of interpreters of hearing and accessible services.

GUEST COLUMN

Mens et Mutans... et Voluntas

Appreciating the volition that drives the Institute

By Vincent A. Fulmer

Students coming to MIT are in for a mind-boggling exposure to volunteerism and hands on learning. Alumni have an obligation to volunteer, and thankfully, at MIT, many do so with zeal. However, volunteerism hardly stops there. It permeates the academic, department, laboratory, research center, studio, and administration of the Institute. Furthermore, it fosters student idealism.

Faculty members who are committed- ed to the larger cause of teaching, research, student advising, and faculty governance committees often go well beyond the call of duty in volunteering their time, as well as countless others. Administrative offi- cers responsible for programs and proj- ents follow suit. MIT support staff often exceed performance standards because of their own pride of workmanship and their desire to contribute to the quality of life on campus.

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CORRECTIONS

An article published October 26, 2012 reviewing Juanita Diaz’s latest book “This is How You Lose the Game” as Related to a Book of Literature. He is a Professor of Writing in the Writing and Humanistic Studies program.

Voluntas, Page 5
Tuesday, October 30, 2012

Volunteers sustain the high quality of the Institute

Vincent A. Fulmer is a member of the class of 1963. He is also the former Secretary of the MIT Corporation.

Volunteers...
- man the Freshman Advisory Council.
- offer Freshman Advisory Seminars.
- provide the content of UROP.
- populate student activities.
- participate in the Industrial Liaison Program.
- contribute to the student Public Works Center.
- govern student residences.
- organize and enrich athletics.
- offer IAP courses.
- offer short, professional summer courses.
- serve on corporation committees.
- serve on departmental advisory committees.
- interview prospective students for the Educational Council.
- conduct and donate blood drives.
- mentor entrepreneurial students.
- provide content for the MIT Enterprise Forum.
- serve as campus guides to visitors.
- communicate with alumni/colleagues.
- solicit gifts, grants, and bequests.
- represent MIT at conclaves.
- promote the arts at MIT.
- travel on behalf of MIT.
- help recruit minorities to MIT.
- write for the Technology Review.
- judge contents by others.
- test designs in studios and labs.
- serve as interns.
- tutor fellow students.
- offer on-line courses.
- act as subjects in research projects.
- compete for recognition and awards.
- demonstrate for favorite causes.
- are everywhere in mind and spirit.

The Tech is running a survey about stress at MIT.

Have something you want to know?

Email surveys@tech.mit.edu with question ideas.
**4 0 4 by Kali Xu and Stephanie Su**

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.

**Sudoku**
Solution, page 11

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<th>8</th>
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<td>7</td>
<td>6</td>
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</tbody>
</table>
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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.

**Techdoku**
Solution, page 11

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<tr>
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<td>6</td>
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<td>2</td>
<td>360x</td>
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<td>150x</td>
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<tr>
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<td>3+</td>
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</table>
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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.
**Saturday Stumper** by Lars G Doubleday

Solution, page 10

**ACROSS**
1 "Hah!" 9 Where travelers may get their shots 15 It's free of charge 16 Principle of Puzo prose 19 Jug band instrument 20 Tatar tape 21 Nick 22 Emmy winner as Carmela and Jackie 24 Gobsmack 26 Graduation, for example 28 Contract 30 Flip side of Satchmo’s “A Kiss to Build a Dream On” 33 It’s curious 35 Test the water, say 36 Inspiration for Infiniti’s logo 39 In no uncertain terms 41 Green of Casino Royale 42 Success in a certain search 46 Wren, for one 48 Carreras’ Met debut 52 “...beast be lord of beasts...”: Hamlet 53 Well-made product? 54 Crown spot 59 Advance 62 Have joint tenancy 63 Descriptor for papers or pills 66 Solo exercises 66 Cop show staple 67 Unite 68 Document classification

**DOWN**
1 Before you know it 2 “No problema” 3 Finesse 4 Athlete competing for the Beehive 5 Farm sound 6 Book before Philemon 7 Galilean concept 8 Haitian island setting of the Pirates of the Caribbean films 9 Resonant sound 10 Nero’s love 11 Check 12 Tops in improbability 13 Marked up 14 2004 film that received an NAACP Image Award 23 Stationery choice 25 Battle Born St. 27 Pick out 29 Muslim honorific 31 Row 32 Minor key 34 Run ___ 36 Ground stuff 37 Point-and-click device 38 Right hand 40 Youngest major leaguer in 1994 and 1995 43 Social worker 44 Jam 45 Tennessee post captured by US Grant 47 Table salt, for example 50 Total, e.g. 51 About, approx. 52 “So true!” 53 Well-made product? 55 Fireball 56 Crown spot 57 “So true!” 58 Knock off 59 Advance 60 Tracks 61 Calendar-watch reading 62 Have joint tenancy 63 Descriptor for papers or pills 64 Stir 65 “So true!” 66 Stationery choice 67 Unite 68 Document classification 69 Tracks 57

**Dinosaur Comics**

Centuars! Everyone loves centuars because they’re a horse on the bottom half - and a dinosaur on the top half!

It’s FLAWLESSLY AWESOME. A horse body combined with my upper torso? WHAT IS THERE NOT TO LIKE?

While centuars are pretty awesome, I think mermaids are better: Fish bottoms, ferocious dinosaur tops!

Aw geez, I forgot how amazing mermaids are!!

I like the minotaur: head is bull, body of a dinosaur! No doubt, it’s a rad beast!

You ever wonder if these amazing creatures will get crossed up by future generations? Like, instead of having awesome dinosaur parts, they’d replace them with something much wimpier and softer, like I dunno, mammals or protoporrimates?

So terrible! The very idea makes me want to drop a barf.

Oh no! I’m dropping a barf right now because I imagined it too hard!

Don’t vom on the carpets! blegh

Oh no, the vom is coming out

YIKES! MIT MEDICAL closes at 11pm!!!

Good thing I can call the 24-hour helpline at 617-255-4481

Hello MIT Medical?

What do you know if someone is congested?

Ahm...
**Football dominates Salve Regina**

MIT overcomes No. 1 team with 29 seconds remaining

Two weeks ago, the MIT football team pulled off possibly the biggest upset in program history, beating previously undefeated (and nationally ranked) No. 14 in Division III Salve Regina University, 20-19. The Engineers, down 1-0 with 3:39 off the clock, but on their second play of their drive, Jacob N. Laux ’14, ran in for what would be the game winning touchdown. The game winning drive started with just 1:08 to play. It was the last home game of the season and it was 1-0. MIT lost. Laux knew there was no other choice. MIT entered the fourth quarter down 14-7. The Engineers ran a hurry-up offense and the ball was on the Salve Regina 31-yard line. A critical 5-yard run and the following play, Jordan W. Wren ’13, were the plays that gave MIT the chance to tie the game. And on the next play Williams connected with Inman for the touchdown and a 14-13 lead.

Salve Regina answered with a 70-yard touchdown drive that put them up 14-13 of the clock. The two-point conversion failed, and the Engineers were down. 14-14 with just over a minute left in the game. On the subsequent kickoff, Evan D. Goldsberry ’15 took it down to the Salve Regina 20-yard line, and on the next play Williams connected with Inman for the touchdown and a 14-13 lead.

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Federal funding to affect MIT research

By Michael Cooper and Jeff Zeleny

The New York Times

With more than one in three votes likely to be cast before Election Day this year, Republicans are stepping up their efforts to chip away at what has been a Democrat advantage in early voting in key battlegrounds like Ohio and North Carolina.

In Ohio, in which 18 electoral votes are at the center of the presidential race, more than 1 million votes have already been cast, high- lighting the significance in the political rhythm that has led Republicans to begin to embrace the belief long held by Democrats that early vote turnout can be used to increase turnout, not just to shift votes from one day to another.

“Some Democrats don’t like to see early voting too easy, they like to go on Election Day, I understand that,” Sen. Bob Portman of Ohio, the state chairman of Mitt Romney’s campaign, said at a campaign rally last week. “If you go down and vote, that frees you up to help others on Election Day.”

When President Barack Obama flew home to Chicago last week to cast his ballot, he became one of the millions of Americans who have already voted — a flood of early votes that is reshaping both campaigns.

The early vote gave Obama his margin of victory in several key states four years ago, and Demo- crats are trying to maintain that advantage this year by banking as many early votes as they can. But Republicans are trying to dampen any early Democratic edge by making a bigger organizational push than they did in the last election. Hurricane Sandy has introduced more uncertainty into the mix, forcing the closures of early voting sites in North Carolina and some in Virginia on Monday, and the story could curtail early voting hours in other key states as it moves inland.

The every-day-is-Election-Day effects of early voting have transformed modern campaigning from the splashy Bruce Springsteen concerts the Obama campaign organized this month to mobilize supporters to the polls, to the less-glamorous databases that the campaigns keep to track potential early voters, as their get-out-the-vote operations have stretched into weeks instead of one frantic day.

More than 14.3 million people have voted so far, according to Michael P. McDonald, an associate professor of government and political science at George Mason University who keeps tabs on early voting. He said that the pace of early voting is still suggested that 10 percent or more of all votes could be cast before Election Day, surpassing the previous record in 2008 when 30 percent voted early.

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Paek proposes paint

Paintballs could repel asteroid

Paintball, from Page 1

have observed that pressure from sunlight can alter the orbits of geosynchronous satellites, while others have proposed equipping spacecraft with sails to catch solar radiation, much like a sailboat catches wind.

In his proposal, Paek used the asteroid Apophis as a theoretical test case. According to astronomical observations, this 27 billion-ton rock may come close to Earth in 2029, and then again in 2036. Paek determined that five tons of paint would be required to cover the massive asteroid, which has a diameter of 1,480 feet. He used the asteroid’s period of rotation to determine the timing of pellets, launching a first round to cover the front of the asteroid, and firing a second round once the asteroid’s backside is exposed. As the pellets hit the asteroid’s surface, they would burst apart, splattering the space rock with a fine, five-micrometer-thick layer of paint.

Paek determined that five tons of paint would be required to cover the massive asteroid.

From his calculations, Paek estimates that it would take up to 20 years for the cumulative effect of solar radiation pressure to successfully push the asteroid off its Earthbound trajectory. He says launching pellets with traditional rockets may not be an ideal option, as the violent takeoff could splatter the spacecraft orbiting Mercury, is equipped with solar sails that propel the craft with solar radiation pressure, reducing the fuel needed to power it. “It is very important that we develop and test a few deflection techniques sufficiently so that we know we have a viable ‘toolbox’ of deflection capabilities to implement when we inevitably discover an asteroid on an impact trajectory,” Johnson says.

William Ailor, principal engineer for Aerospace Corp. in El Segundo, Calif., adds that the potential for an asteroid collision is a long-term challenge for scientists and engineers. “These types of analyses are really timely because this is a problem we’ll have basically forever,” Ailor says. “It’s nice that we’re getting young people thinking about it in detail, and I really applaud that.”

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Got Something to Say?

Now you can! Introducing comments on The Tech’s website Make your voice heard

MIT News (http://web.mit.edu/newsoffice/)

Solution to Sudoku

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EVENTS OCT. 30 – NOV. 05

TUESDAY

(6:00 p.m. – 7:30 p.m.) Climate and Conflict: Heat and Violence talk — NS1, MIT Museum

WEDNESDAY

(12:00 p.m. – 1:30 p.m.) Service Member, Veteran, and Family Wellness: What Is It, and Why Should We Care? — E40-496

THURSDAY

(5:00 p.m. – 7:00 p.m.) Digitizing the Culture of Print: The Digital Public Library of America and Other Urgent Projects — E41-633

FRIDAY

(3:30 p.m. – 4:30 p.m.) Energy Lecture Series: “A Day in the Life of the Grid” by FERC Chairman Wellinghoff — E25-111

(7:00 p.m. – 10:00 p.m.) LSC shows Moonrise Kingdom — 26-100

SATURDAY

(8:00 p.m.) Persian Style Halloween Party — 50

(9:00 p.m. – 11:55 p.m.) Romanian dance party — W20-491

SUNDAY

(6:00 p.m. – 8:00 p.m.) Shankar Tucker: Live in Concert, fusion Indian music — W16

MONDAY

(6:00 p.m. – 9:00 p.m.) Disruptive Innovation: The Internet of Things — N51, MIT Museum

Send your campus events to events@tech.mit.edu

MIT's Printing - Embroidery and More... part of R.A.R. (Rinigrafia Art Works)

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Got Something to Say?

Now you can! Introducing comments on The Tech’s website Make your voice heard
Hurricane Sandy causes MIT to shut down Monday
Rain to continue through the week; over 350,000 homes in Massachusetts without power

Sandy, from Page 1

8:30 p.m. through the MIT Alert system, and a campus-wide email was sent at 8:34 p.m.

Hurricane Sandy brought winds of nearly 65 miles an hour to Massachusetts Monday afternoon, with the Green Building weather station monitoring gusts peaking at 52 mph. There was severe flood- ing in New Jersey, as well as pockets of flooding throughout Mas- sachusetts. Sandy is the second largest Atlantic storm in the past 24 years (which is how long hurri- cane data has been tracked), hav- ing broken Hurricane Lili’s record from 1996. By press time Monday evening, over 350,000 homes in Massachusetts had lost power, and more blackouts are expected as the storm progresses.

The worst of the storm hit Mas- sachusetts Monday afternoon — though Boston experienced only the outskirts of the storm. Sandy made landfall in New Jersey around 8:00 p.m. Monday, and as of this writing has been downgrad- ed to a post-tropical cyclone. Rain will continue throughout Wednes- day afternoon.

MIT will be open today, the Institute announced at 9:50 p.m. Monday through the emergency website, though it will have a de- layed starting time of 9 a.m.

Preparations for Sandy

MIT took a number of steps to prepare for the storm. Residents in all dormitories were urged to keep a light source handy and to close their windows to prevent rain and wind damage. Jason Doucette, house manager of Next House, said in an email to the dorm that towels were available to students to help block their windows in case of leakage.

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Roof drains and external drains of residence halls were cleaned of leaves to help prevent flood- ing, and water vacuums and sump pumps around campus were test- ed. MIT Dining received a number of large food deliveries Monday in case the storm caused transpor- tation issues or food short- ages. LaVerde’s and Café Spice remained open Monday (Dunkin’ Donuts, Subway, and Anna’s Ta- queria were only open for the mor- ning), though the rest of the restaurants in W20 were closed. The menu at LaVerde’s was lim- ited, and a number of items on the menu at LaVerde’s were limited, and a number of items on the grill were not available.

Facilities around MIT, includ- ing the Zeisger Center, were closed for the day. In an email to the ath- letics staff, Julie Soriero — director of athletics, physical education, and recreation — announced that if MIT closes, “all of our buildings, pro- grams, practices, and PE classes will be cancelled.”

How do you prepare for a hurricane?

Students were encouraged to pack loose items and move furni- ture away from windows — all of which should be closed and locked. Any items in outdoor areas should be brought indoors, and electronic devices should be unplugged. Cell phones should be charged before the storm. People should stay inside and be aware that the power might go out. While all dormitories have emergency generators for power- ing the fire alarms and hallway/exit lighting, bedrooms and apart- ments will lose power. In an email to all housemasters, Dennis Col- fax, director of residential life for capital renewal and construction, warned that if Massachusetts lost power, MIT’s cogeneration plant would initially go down, activating the emergency generators. While the cogeneration plant should be able to restart within a few hours, those in the northwest area of cam- pus who do not rely on the cogen-eration plant may be on emergency power for a longer time.

“Power on campus is supplied by the Co-Gen plant,” said Kirk D. Kolenbrander, vice president and secretary of the MIT Corporation. “It’s quite reliable.”

Collins’ email also included other tips for weathering Sandy, such as things to include in a hurricane preparation kit (“use- ful items such as non-perishable food items and snacks, juices, soft drinks, bottled water, manual can opener, change of clothing, sturdy shoes, portable radio, first-aid kit, batteries, flashlight, eating uten- sils and containers for holding wa- ter. Refill prescription medicines,” the email read). He also noted that refrigerators without power can safely hold food for up to 12 hours if they are opened infrequently.

Sandy in Boston

MIT was not the only school in the Boston area to close for the day. All public schools in the Bos- ton metropolitan area were closed, and a number of other colleges — including Harvard University, Bos- ton University, Babson College, Wellesley College, and Northeast- ern University — shut operations down on Monday in preparation for Sandy. Public schools should be open today.

In a press conference Sunday afternoon, Governor Deval Patrick requested schools to close and for Sandy to stay off the roads during Sandy.

Students who have problems with leaks or other storm-related issues should contact MIT Facili- ties at 617-253-1500. While MIT has increased the number of mechan- ics on shift for the next few days, those making calls should expect delays. More information about Hurricane Sandy can be found at the NOAA’s website at http://www.nhc.noaa.gov/.

MIT is not the only school in the Boston area to close for the day.

Logan Airport remains open, though the reliability of individual airlines will vary. Danny Levy, a spokeswoman for the Massachu- setts Port Authority, suggested that travelers “check with airlines before venturing to the airport,” according to The Boston Globe. Hurricane Sandy has been touted as the second “Perfect Storm” after the deadly storm of 1991, which inspired the 2005 film of the same name starring George Clooney and Mark Wahlberg. While the prior conditions for the storms are similar, they are not the same, and Sandy is not predicted to be as damaging.

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Lucentio (Victor E. Cary ’14), disguised as language tutor Cambio, attempts to woo Bianca (Keenan A. Sunderwirth ’14) while Hortensio (Nicholas J. Benson ’16) looks on jealously in the MIT Shakespeare Ensemble’s performance of *The Taming of the Shrew*. The MIT Shakespeare Ensemble, composed of MIT students and community members who work together long-term to produce Shakespeare shows, performed Shakespeare’s famous comedy on Friday and Saturday night in La Sala de Puerto Rico.
Expect a return of Heat at championships

Lakers and Thunder come back hungry from the West, ready to dethrone the Heat

By Austin Osborne and Nicola Lopez

Eastern Conference

Atlantic Division

1. Boston Celtics (4)
2. Philadelphia 76ers (5)
3. Brooklyn Nets (6)
4. New York Knicks (7)
5. Toronto Raptors

The Atlantic Division has become the most competitive division in the NBA prac-
tically overnight. With that, said the Boston Celtics are still the best team in the divi-
sion, and they have improved significantly over the offseason. After losing Rajon Rondo in the offseason, the Celtics signed Jeremy Lin and Courtney Lee to add depth to their off-guard position. Jeff Green also returns for the team, after missing all of last season with a heart condition. The most interesting move Boston made, however, is selecting Jared Sullinger with their first round pick. Sullinger was projected to be picked in the top 10 at one point last year, but his stock fell drastically due to injury concerns. The Celt-
ics potentially get their power forward of the future in Sullinger if he can stay healthy. As long as Boston has Garnett, Pierce and Ron-
do, they will always be competitive come playoff time.

The 76ers are one of the most improved teams in the league. Near the end of a season of of Jeremy Lin, but now Lin is gone and for the majority of the season. They received Conference last year, but they disappointed season to challenge the Heat for the Eastern

Jrue Holiday and Evan Turner can break he may even potentially step into a starting

Richardson in the Bynum trade. Richardson

star in the low post, which is something the

dre Iguodala, Bynum is a legitimate super-
team in the league. Near the end of a

playoff time.

do, they will always be competitive come

future in Sullinger if he can stay healthy. As

dramatically due to injury concerns. The Celt-
sion by re-acquiring Kirk Hinrich. The Bulls

injuries to James, Bosh or Dwyane Wade,

will continue to dominate teams night in

ering the vast percentage of his playoff min-

g a true center, Miami will most likely play

ning a true center, Miami will most likely play

in the postseason. The Nets have retooled

the team, and an argument can be made that

they are not on their way to being a

lantic in these predictions, it doesn't mean

Knicks will continue to be a middle-of-the-

heavily demand the ball, but a 6'10”

playoff spot.

Ersan Ilyasova was one of the worst players of last season, showing outside shooting and rebounding skill.

Detroit is currently in the middle of a re-

building process. After their championship

opening day and Kevin Garnett has shown promise last season out of Zaire. Biyombo

Solidity of strength (anchored by Jose Calderon

afford to lose playoff experience. Their young core of Kyle Lowry, Terrence Ross and Landry Fields, the Raptors have bol-

ded their backcourt that already was a posi-
tive aspect of the roster. Offensively, the Raptors will continue to miss

out on the playoffs. If Valanciunas continues to improve, and get some garbage points, the team will have

playoffs alone. Guard Rodney Stuckey has

been a fixture of the franchise for the past

nights he will be able to lead them into the

playoffs alone. Guard Rodney Stuckey has

been a fixture of the franchise for the past

years and he continues to be one of the

team's primary scoring options. He was

one of the few players to score 20 points

in the season, however, when the team drafted point guard Brandon Knight. Knight had a good

rookie season, averaging 13 points per game

and he should more shoulder more of the load on offense this year.

ball all season. He is definitely a player that

will be missed. The Pacers will have to

pick, center Andrew Bogut. The trade gave

them a true center, Miami will most likely play

at that level of play even since. They drafted an

incredibly talented center in Greg Monroe, who in his second and third season could

nity be in for a breakaway year, especially after

last season. He is definitely a player that

would they be anyone off guard this year. This team is leg-
imatically one of the most complete teams in

in the league. They also have a
to be competitive in the Atlantic. We are

by many last season to challenge the Heat for the Eastern

season, and the majority of the season. They received

a shot in the arm from the unexpected ad-

dition of Kyle Lowry. At the end of the New year, New York sent the offseason attempt to break into a playoff spot, but they

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The Minnesota Timberwolves are probably the most intriguing team this season, in large part due to the NBA comeback of former superstar SG Brandon Roy.

As he leads Demar’s charge to the top of the Western Conference Standings for most of the season and finished 2nd in the NBA in assists, Roy had been showing flashes of brilliance in his return. With a 4.4 assist per game average, Roy was on pace to lead the league in assists per game, a feat that had not been accomplished since the 2008-09 season. However, a broken hand early in the season forced Roy to miss 31 games, and his return to the court was anything but seamless. Despite averaging 17.7 points and 5.1 assists per game in 21 games played, Roy was unable to help the Timberwolves reach the playoffs this season.

After sitting out a year and a half due to knee injuries, Roy returned to the court on January 25, 2011, but he was not the same player he was before his injury. Despite averaging 15.7 points and 5.8 assists per game, Roy struggled to find his rhythm and was unable to inspire his teammates. The Timberwolves finished the season with a record of 37-45, and despite Roy’s efforts, they were unable to make the playoffs.

Despite the disappointment of missing the playoffs, Roy’s return to the court was a sign of things to come. The Timberwolves traded for Roy in the off-season, hoping to build a team around him. With Roy’s return, the Timberwolves have a chance to become a contender in the Western Conference.

Roy’s return is not the only reason to be excited about the Timberwolves. The team has made some key acquisitions, including PG Ty Lawson and SF Corey Brewer. Lawson is a proven point guard who can be a key part of a team’s offense, while Brewer is a versatile forward who can contribute on both ends of the court.

The Timberwolves will have to overcome some challenges, including a lack of depth at the center position. However, the team has a solid core of players, including Roy, who can help them compete at the highest level.

In conclusion, the Timberwolves are a team to watch this season. With Roy’s return, the team has a chance to become a serious contender in the Western Conference. The team will need to overcome some challenges, but with the right mindset and effort, the Timberwolves can make a deep run in the playoffs.
Talented athlete, engineer

Peterson wins National Scholar-Athlete award

By Nidharshan Anandasivam

Ethan E. Peterson ’13 is a Couse 22 (Nuclear Science and Engineering) and Course 8 (Physics) senior on MIT Men’s Varsity Football. He has started on the MIT offensive line for the last three seasons and become co-captain last season. For his stellar play, he has received much recognition, including being selected for first team All-New England Football Conference. In fact, Ethan recently won the National Scholar-Athlete Award given by the National Football Foundation. This award selects 15 honorees out of the national pool of 147 semifinalists, who are selected from all divisions of college football for their academic prowess and their achievements on the field. Ethan is the sixth person in MIT Football history to receive this distinguished award.

Ethan’s primary academic interests lie in the applied physics relevant to energy generation. He plans to complete graduate studies and pursue a career in plasma physics and fusion engineering, hoping to contribute to the onset of economically viable nuclear fusion for base load electric power generation. Aside from academics and football, Ethan is also passionate about playing video games, reading science fiction, and discussing physics and philosophy.

The Tech sat down with Ethan to discuss life as a student-athlete on the MIT Varsity Football Team.

Q: What do you like most about the MIT Football team?

EP: I like the overall character of the team—we win and lose with class. We also never give up, which has resulted in a lot of close wins this year to what we did well and what we need to improve on. We also go over the scouting report for the team we are playing that week. Tuesdays, Wednesdays, and Thursdays are when we get most of our work done on the field, showing the looks of the other team and developing our game plan. The practice week ends on Friday with a walk-through to get focused for the game the next day. Most games are at 1:00 p.m. on Saturday afternoon. Home games are nice because we get to sleep in a little later, but most of our away games are within an hour and a half drive which isn’t too bad. This year we are 5-3 (4-2 NEFC) with a huge win over nationally ranked Salve Regina on senior night. This week we will finish up our regular season schedule traveling to Endicott, where a win keeps our chance at the conference title alive and secures a 6-3 record, one that features the best winning percentage in MIT football history.

Q: Out of the classes you are taking now, which is your favorite? EP: My favorite class at the moment is 22.033 (Nuclear Systems Design Project). This class is interesting because we are given certain constraints in designing a next generation fusion test reactor, but the majority of the design choices are left up to us. This means a lot more work, but the results are really rewarding.

Q: What other clubs are you involved in around MIT?

EP: I’m a member of the MIT Men’s Ice Hockey team who is defending the NECHA conference title for the second time in a row at No. 2 where the MIT team of senior Candace Wu and Julia C. Hsu ’14 were taken to the limit by the Wellesley team of Erica Choo/Joyce Chen in a 9-8 win for the Engineers. At No. 1, the MIT pairing of Lauren C. Quiessenberry ’14 and Tam were pressed as well, but came out on top over the Blue’s Diana Granger/Seojung Lee, 6-4. Providing the final doubles point was the No. 3 team of Michelle M. Dutt ’15 and Sunny E. Lampley ’16 who edged past Sara Barnes/Veronica Lin, 6-5.

After Tuesday’s win in doubles, it was Quiessenberry and Tam who provided the two singles wins to put the championship in the Engineers hands. Playing at No. 1, Quiessenberry allowed just one game to her opponent, downsing Granger 6-4, 6-0. Tam, who also scored a singles win yesterday in the semifinals, held off Barth in the first set of the No. 4 match and then rolled in the second in a 6-4, 6-0 decision.

With the fall portion of its schedule complete, MIT will return to action on the courts next March as it opens play in the spring portion of its 2012-13 schedule.