tech.mit.edu



WEATHER, p. 2 SAT: 66°F | 52°F Partly sunny SUN: 62°F | 50°F Chance of showers

Volume 132, Number 48 Friday, October 26, 2012

MIT Together for wellness

New website lists plethora of student resources

By Kath Xu STAFF REPORTER

Now that MIT students are halfway through their first semester, they have had enough time to gauge how they are doing so far this year, academically and otherwise. Last week, MIT launched MIT Together, an initiative aimed to de-stigmatize and demystify asking for help in the MIT community. The core of MIT Together is a new website, together.mit.edu. On the site, students can find listings of student help services ranging from academic resources to mental health

"If you need help right away, the site tells you where to go," wrote Dean of Student Life Chris Colombo in this month's student life and learning digest. "If you are just contemplating making an appointment to talk with a professional, MIT Together will help you find the information you need to be comfortable reaching out for support."

To publicize the campaign launch, MIT Together put up a series of posters on bulletin boards around campus. In addition, the team distributed door handle cards to each undergraduate dorm. The cards will soon be distributed to graduate dorms and independent living groups as well.

Despite the advertising, quite a few students interviewed in the Student Center and the Stata Center said that they hadn't heard of the initiative, and asked what it was about.

Jessica J. Yang '15, Class of 2015 president, said she first heard about MIT Together through an e-mail sent out to all MIT students.

"I thought the website, on a cursory glance, was informative. It was well-organized," Yang said. "I think that if I were interested in those types of resources, I would definitely go to the streamlined website.

Tom Gearty, director of communications for student life and special assistant to the dean for student life, stressed that MIT Together is not an office unto itself. Instead, it is supposed to serve as a kind of map to all the student support services offered by MIT.

The idea for MIT Together first came up in the fall semester of last year. According to Gearty, some members of the Undergraduate Association drew up a proposal for a student resource guide after some discussion. In addition, the student deaths last year prompted a community-wide conversation about MIT's support resources. Chancellor Eric Grimson PhD '80 received a large amount of feedback, and worked to address the community's concerns. What came out of these different sources is what Gearty called "an awareness initiative<mark>" — MIT Together.</mark>

MIT Together, Page 14



How safe is the food?

Food inspections at and near MIT

INSIDE

Food safety

By Joanna Kao STAFF REPORTER

You've probably heard of the horror stories of finding lizard tails

in salads or clumps of hair in soup. You probably think, or at least hope, that it never happens to you here in Cambridge. But how safe, really, is the food you eat around

In the 2011 Undergraduate Enrolled Student Survey, more than

75 percent of respondents said that they ate at a local restaurant or ordered at a sit-down restaurant over the month prior to the survey. And with the dining plan, over half of

MIT undergraduates are regularly getting prepared food from industrial kitchens in their dorms.

in Cambridge, Fortunately, the city visualized. p. 8 of Cambridge - MIT included - follows the Massachusetts Merged Food Code,

Food inspections, Page 8

EdX platform integrates into classes

ESG, Concourse 8.01 complete assignments via edX interface

By Leon Lin STAFF REPORTER

Nearly six months ago, Harvard and MIT announced the launch of edX, billed as a new online learning platform that would revolutionize education for students around the world seeking. But the universities associated with the nonprofit venture - which now include the University of California, Berkeley and the University of Texas system schools — are also in it to improve their residential classes. This fall,

are taking on campus — including freshman General Institute Requirement 8.01 (Physics I) — are also making use of edX software.

MIT Professor and edX President Anant Agarwal is fond of saying that he sees edX as a "rising tide that will lift all boats," that is, both for students attending an "X University" and those who aren't. He envisions that those who are will benefit from "blended model" of education combining traditional classroom interaction with online content.

Of the classes at MIT currently

using edX software, the Experimental Studies Group and Concourse versions of 8.01 do so most extensively. Students access reading material, example exercises, videos, animations, and problem sets all on the edX platform.

New concepts are introduced to students as they go through the online sequence. Students must demonstrate that they understand the new material by answering online "reading questions," which are due before class. Then, during

IN SHORT

Second quarter PE classes start on Monday! Show up to the first class so you don't lose your spot!

Pumpkin Drop is tomorrow at 11:59 p.m. Come see the physics of Halloween as pumpkins fall from the Green Building.

Trick-or-treat at DormCon Dorms tomorrow! Starting at 9 p.m. until supplies run out, each dorm in DormCon (all undergraduate dorms except Bexley) will be giving out candy to residents of DormCon dorms that trick-or-treat. You'll get more candy if you trick-or-treat with people from other DormCon dorms; the number of dorms represented in a given group of trick-or-treaters directly correlates to how much candy you'll get at every dorm!

Mobile printing to Pharos using ezeep now online. If you have an iOS or Android device, try it out! Setup and trial activation instructions are available at http://kb.mit. edu/confluence/x/Q4sBCQ. MIT IS&T has arranged for the trial to last through the end of December 2012. Please send feedback on the service to ezeep-feedback@mit.edu.

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

One-fifth of '16s receive fifth week flags

Freshmen in danger of failing classes warned by administration

STAFF REPORTER

203 freshmen, about one-fifth of the freshman class, received fifth-week flags last week. According to Julie B. Norman, senior associate dean and director of the office of undergraduate advising and academic programming (UAAP), 37 of the 203 freshmen who got a flag received more than one. The number of freshmen who received who received flags is on par with that of previous years.

Seventy-seven flags were issued in 7.012 (Introductory Biology) — the most of any class. 13 percent of freshmen in the class received a flag, a decline from last year's 7.012 flag rate of 21 percent.

(Physics I) had the highest percentage of flagged students, with 19 percent flagged out of 139 enrolled, while 8.01 had the lowest flag rate of 5.4 percent.

Flags are sent to freshmen who have a grade of C or below five weeks into a class. They consist of an e-mail from the professor, followed up by an e-mail from Associate Dean Donna Friedman encouraging struggling students to take advantage of academic support resources, including tutoring, TA office hours, and assistance from the UAAP and the Office of Minority Education.

Brittney H. Johnson '16 was not surprised when she received a flag in 7.012. "I pretty much saw it coming," and forgot to turn in the second p-set."

For Johnson, improving her grade is a matter of changing her high school study methods to fit the demands of freshman year.

"It was like a wake-up call," Johnson said. "In high school, compiling the information was enough, but I've found that here, I need to compile the information and then study what I've compiled."

Johnson says she knows what she needs to do next. She doesn't plan to use the additional support resources, though she thought the information would be very helpful to students who

Flags, Page 12

SWAPFEST

A closer look at the Institute tradition that's been going strong for over 25 years.

CAMPUS LIFE, p. 7

THE CUBAN MISSILE CRISIS

50 years later, a review of the best books about the incident. ARTS, p. 11

NEW EDX PARTNERSHIP!

MIT's online learning platform continues to grow. **NEWS, p. 12**



POLITICAL KOMBAT

Presidential candidates duke it out in debates, MIT students respond. VIDEO: http://bit.ly/MITdebates

BEYOND THE WHITE TENT

What other semipermanent spaces appear around MIT? ARTS, p. 10

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Official silence in Israel over Sudan's attack accusations

JERUSALEM — Israel maintained its official silence Thursday over Sudan's accusation that the Israel military was behind an air attack that destroyed a weapons factory in Khartoum, the Sudanese capital, early Wednesday.

But senior Israeli officials spoke openly about what they described as Sudan's destabilizing role in the region, accusing it of serving as a transit point in a weapons supply route from Iran via the Sinai Desert to Palestinian militant groups in Gaza and other places like Lebanon.

Israeli newspapers splashed reports from Sudan on their front pages Thursday, and analysts posited that if Sudan's accusations were true, Israeli warplanes would have flown an impressive 1,180 miles each way to carry out their mission, a feat, they said, that should serve as a warning to Iran.

While Iranian leaders have derided Israel's veiled threats to strike at Iran's nuclear facilities, some newspapers here carried maps showing that the distance from Israel to the major Iranian nuclear sites is about 200 miles shorter than the direct flight path from Israel to Khartoum.

A top Defense Ministry official, Amos Gilad, called Sudan "a dangerous terrorist state," telling Israel's Army Radio that "the regime is supported by Iran and it serves as a route for the transfer, via Egyptian territory, of Iranian weapons to Hamas and Islamic Jihad terrorists," referring to the dominant militant groups in Gaza.

In Khartoum on Wednesday, Ahmed Belal Osman, the Sudanese minister of information, told reporters that four combat planes coming from the east had bombed the weapons factory in the Yarmouk industrial complex before dawn.

—Isabel Kershner, The New York Times

Berlusconi's retreat upends political field

ROME — Former Prime Minister Silvio Berlusconi rose to power in 1994 in a moment of chaos after the collapse of Italy's postwar political order. This week, as he prepares to exit a stage he once dominated, he is leaving new chaos in his wake.

On Wednesday, Berlusconi announced that he would not lead his party in Italy's national elections next spring, ending months of wild, market-sensitive speculation about his intentions, but ushering in greater instability six months before the voting to replace the government of Prime Minister Mario Monti.

"I won't run for prime minister," Berlusconi, 76, said in a statement published on the website of his new People of Liberty party, or PDL, in which he called for his party's first primaries. "But I will remain next to younger players who need to play and to score goals."

Berlusconi said he would not leave politics, and he is widely expected to lead from behind the scenes. But analysts say his decision to step to the sidelines could easily precipitate the demise of a party that has long been a charismatic movement. His move radically reshuffles the political deck — and opens up a race for the center — after nearly two divisive decades in Italian politics.

"The main fault line of the Second Republic was pro-anti-Berlusconi," said Duncan McDonnell, a political scientist at the European University Institute in Florence, referring to the Berlusconi years.

"His announcement brings the end of the PDL nearer. And once the PDL goes, then all bets are off," he added.

For years, Berlusconi's center-right coalitions managed to unite the quasi-separatist Northern League, the nationalist hard-right National Alliance and its offshoots, former Christian Democrats and other politicians who were driven more by loyalty to Berlusconi than by any particular ideology.

Without Berlusconi, the puzzle is coming undone. The party has also been dragged down by a series of corruption scandals at a regional level.

—Rachel Donadio, The New York Times

Obama and Romney set to raise \$1 billion each

By Nicholas Confessore and Derek Willis

THE NEW YORK TIMES

President Barack Obama and Mitt Romney are both on pace to raise more than \$1 billion with their parties by Election Day, according to figures released by the campaigns Thursday.

From the beginning of 2011 through Oct. 17, Obama and the Democrats had raised about \$1.06 billion, and Romney and the Republicans had collected about \$952.2 million, including some money for the party's congressional efforts, setting up 2012 to be the most expensive presidential campaign in history. But the sources of that money, raised over the course of a deeply polarizing campaign, echo the sharp divisions between the two men and their parties over issues like abortion rights, the role of government in regulating industry, and the country's economic future.

Wall Street has invested more heavily in Romney, an ex-financier who has pledged to repeal Obama's new financial regulations, than in any presidential candidate in memory. Employees of financial firms had given more than \$18 million dollars to Romney's campaign through the end of September and tens of millions more to the super PACs supporting him.

Insurance companies, law, accounting and real estate firms, and doctors are giving less to Obama and the Democratic National Committee than they did four years ago, according to data from the Center for Responsive Politics.

Yet donors in other industries have stepped in. With Obama making repeated trips to Silicon Valley and holding round tables with executives there, the technology industry has donated about \$14 million to the president and the Democrats, substantially more than in 2008. Retirees — the biggest single source of money for both sides have given the Democrats much more than they did four years ago, as have employees of women's groups, hospitals and nursing homes, and retailers. To make up for the loss of business money that flowed to his campaign four years ago, Obama

has also turned to the very smallest donors, building an army of millions of supporters who have given as little as a few dollars each. About 4.2 million people sent donations to Obama and the DNC, his campaign said Thursday, roughly one million more than in the 2008.

Overall, 55 percent of the Obama campaign's money came in donations of less than \$200, including from many people who have repeatedly sent in small checks over the course of the campaign. Just 13 percent of his checks were for \$2,500, the maximum that donors are allowed to contribute for either the primary or general election.

Romney, by contrast, has cultivated business leaders and benefited from a Republican donor establishment that is eager to defeat Obama, raising an unprecedented amount of money from wealthy donors who gave the maximum allowed. Just 22 percent of his cash has come from donations of less than \$200. But through the end of September, 45 percent of checks to Romney's campaign were for the maximum \$2,500 contribution.

Iran said to complete underground nuclear enrichment plant soon

By David E. Sanger and William J. Broad

THE NEW YORK TIMES

WASHINGTON — Intelligence officials from several countries say Iran in recent weeks has virtually completed an underground nuclear enrichment plant, racing ahead despite international pressure and heavy economic sanctions in what experts say may be an effort to give them leverage in any negotiations with the United States and its allies.

The installation of the last of nearly 3,000 centrifuges at a site called Fordo, deep under a mountain inside a military base near the holy city of Qom, puts Iran closer to being able to build a nuclear weapon, or come up to the edge, if its leaders ultimately decide to proceed.

The United States, Israel, and the United Nations have vowed to prevent that from happening, imposing increasingly tougher sanctions on the country and using cyberwarfare to slow its progress in obtaining a weapon. President Barack Obama said last week that the time for a negotiated settlement was "running out."

Talks this year between Iran and the so-called P5-plus-1 — the five permanent members of the U.N. Security Council plus Germany — have made little progress.

The New York Times reported Sunday that the United States and Iran had reached a tacit agreement to hold direct talks after the U.S. presidential election. Obama denied the report but said in Monday's debate with Mitt Romney that he was open to such talks.

Iran's progress at Fordo was disclosed by officials familiar with the findings of inspectors from the International Atomic Energy Agency who have been to the site recently as part of their regular visits. The

officials included some from European governments who have opposed taking military action to slow the Iranian program, arguing that sanctions — with a mix of covert action — are far preferable.

The report comes at a moment when Iran has emerged as a flash point in the foreign policy debates surrounding the approaching election.

Romney has charged that the president has been "weak" on Iran and noted that Iran's production of nuclear material had expanded greatly during Obama's tenure. But he also embraced diplomacy in the Monday evening debate.

Asked about the intelligence reports, Tommy Vietor, the spokesman for the National Security Council, said, "While we can't comment on a report that has yet to be released, we remain concerned about Iran's defiance of its international obligations."

WEATHER

The calm before the storm...

By Roman Kowch

STAFF METEOROLOGIST

Ever heard the above phrase? Well, our region's weather is expected to shift dramatically over the next several days. The weekend will have tranquil conditions, similar to the weather from earlier this week. Mostly sunny skies, light winds, and normal temperatures will continue today and tomorrow. Some cloudy skies may linger this morning, but nearby high pressure and dry air should erode those clouds by afternoon. Highs will remain in the mid 60s°F (17-19°C).

The weather on Sunday and beyond will get quite interesting. Hurricane Sandy will continue moving north off the southeast U.S. coast this weekend, and according to weather models, it should weaken but then rapidly re-strengthen before hitting the northeastern U.S.

At the time of this writing, uncertainty remains with the storm's exact track and impacts on New England. Nevertheless, conditions will deteriorate for our area beginning late Monday and into the middle of next week. High winds, heavy rain, and flooding are all possible anywhere along the northeastern U.S. coast by that time. Stay tuned to weather forecasts during the weekend for more information on the storm's exact track.

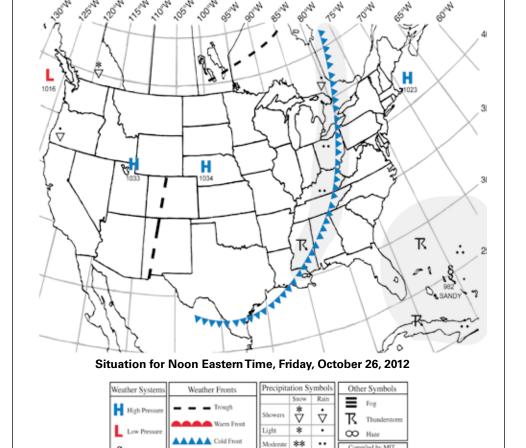
Extended Forecast

Today: Cloudy morning skies, then sunny by afternoon. High 67°F (19°C).

Tonight: Partly cloudy. Low 52°F (11°C). **Tomorrow**: Partly sunny. High 66°F (19°C).

Sunday: Mostly cloudy with showers possible late. High near 62°F (17°C). Low near 50°F (10°C).

Monday: Rain likely, increasing winds. High near 61°F (16°C). Low near 48°F (9°C).



Bad luck and missteps make GOP climb steeper

By Jonathan Weisman
THE NEW YORK TIMES

WASHINGTON — The Indiana Senate candidate Richard E. Mourdock's reintroduction of rape and abortion into the political dialogue this week is the latest in a series of political missteps that have made the Republican quest to seize control of the Senate a steeper climb.

Once viewed as likely to win the Senate, Republicans are now in jeopardy of losing seats in Massachusetts and Maine. If they do, they will need to win at least five seats held by Democrats and hold three other Republican seats at risk to net the three needed to take the Senate if Mitt Romney wins the presidency.

If President Barack Obama prevails, Republicans will have to win at least one additional seat in a state where they are seen as slightly behind — either in Connecticut, Florida, Ohio, or Pennsylvania.

"Republicans can do it," said Jennifer Duffy, a Senate political analyst at the nonpartisan Cook Political Report. "It's just getting a lot harder" Rob Jesmer, executive director of the National Republican Senatorial Committee, said Thursday that Republican candidates were within reach of victory in 10 to 12 competitive races, with Mitt Romney's improvement lifting candidates in states that were out of play six weeks ago

But time is dwindling. The implications for the next two years cannot be overstated. If Obama wins a second term, his hand would be much strengthened by a Democrat-led Senate — even a narrowly divided one — as opposed to unified Republican majorities in the House and the Senate.

At the moment, Democrats are given little chance of winning the net 25 seats they would need to take the House, though they could well gain House seats.

If Romney wins the White House, even a one-seat Democratic majority in the Senate could thwart his domestic ambitions, from an immediate repeal of Obama's health care law to his proposed 20 percent, across-the-board tax cut.

Those proposals rely on both a

Republican majority and the use of a parliamentary budget procedure that would negate a Democratic filibuster. But a Democratic majority leader could keep the proposals from coming to a vote without substantial Democratic changes. An opposition majority would also ensure leverage in the fight over the fiscal cliff, what to do with the expiring Bush-era tax cuts and looming, across-the-board spending cuts, called sequestration, that go into force in January.

Sen. Patty Murray of Washington, chairwoman of the Democratic Senatorial Campaign Committee, predicted Democrats would hold on.

"If you look back two years ago, not one person thought we would be able to keep the majority," she said, adding, "Our prospects are very good."

Republicans recognize that the climb back to the majority has become much harder than it appeared a year ago. Some of the difficulty was just bad luck. The unexpected retirement of Sen. Olympia J. Snowe of Maine changed the math early.

Ford closing three plants in European downsizing

By Bill Vlasic and David Jolly

THE NEW YORK TIMES

The Ford Motor Co. has broken from the pack of troubled European automakers, announcing deep cuts that include shutting three factories in the region and eliminating 5,700 jobs.

The auto industry has been in decline in Europe, where sales have fallen to nearly a 20-year low and production capacity far outstrips current demand.

By acting forcefully to address its problems there, Ford is setting a bold example for the rest of the industry, analysts said. Other companies will face pressure to make similar moves or explain to investors why they are continuing to employ too many workers at underused factories.

Ford is following the same blueprint to downsize in Europe that it used to turn around its North American business several years ago.

The company said Thursday that it expected to lose more than \$1.5

billion in Europe this year, up from an earlier estimate of at least \$1 billion. Ford said the cuts would save about \$500 million in annual costs and help it return to profitability in the region by mid-decade.

Ford's chief executive, Alan R. Mulally, said the automaker was working with its unions in Belgium and Britain to assist workers affected by the factory closings.

"We recognize the impact our actions will have on many employees and their families in Europe, and we will work together with all stakeholders during this necessary transformation of our business," he said in a conference call with analysts and reporters.

Ford had said Wednesday that it would close its assembly plant in Genk, Belgium, by the end of 2014. On Thursday, it said it would also close two plants in Southampton and Dagenham in Britain next year.

The actions will reduce production capacity in Europe by 18 percent, or 355,000 vehicles. The com-

pany said it would eliminate 4,300 positions in Belgium and 1,400 in Britain.

The moves contrast with those of other automakers that have either avoided plant closings altogether or scheduled shutdowns for several years from now

One industry analyst said other auto companies in Europe could follow Ford's lead and step up their restructuring efforts.

"There is something to be said for swallowing all of the bad medicine at one time," said Michael Robinet, managing director of IHS Automotive Consulting in Northville, Mich. "I think other manufacturers have to acknowledge a real sense of urgency now." European auto sales have fallen to a projected 14 million vehicles this year, down from about 18 million in 2008. Ford's European chief, Stephen Odell, said the market may drop even further next year, making production adjustments essential for a long-term turnaround on the Continent.

On a frenetic day, Obama votes and Romney is for change

By Michael Barbaro and Peter Baker

THE NEW YORK TIMES

WORTHINGTON, Ohio — Mitt Romney adopted the mantra that fueled his opponent's victory four year ago, casting himself as the candidate of "big change" Thursday in Ohio as he began to outline a closing argument in the state that could decide the race.

On the same day, President Barack Obama wrapped up a sleep-deprived two-day, eight-state jaunt by pressing supporters to exploit early voting in swing states as a bulwark against the possibility of a surge by Romney, traveling to Illinois to cast his own ballot 12 days before Election Day.

It was a day of deeply contrasting messages that hinted at the moods and strategies inside both campaigns: Romney sought to keep projecting the air of a winner, focused on an ambitious agenda of reform, while Obama emphasized the gritty mechanics of shoring up his electoral turnout.

Romney, who has narrowed the president's lead in some state and national polls, started a three-city bus tour here by borrowing a message of change long identified with Obama's 2008 campaign. The Republican candidate promised to "tackle the problems politicians have spoken about for years but haven't been willing to deal with."

"It's time for a big change, and Paul Ryan and I represent a big change for America," Romney said after rolling into an afternoon rally here on his bus with flashing redand-blue lights in the window.

For Obama, reclaiming the change mantle as an incumbent has been one of his singular challenges. It is hard to run against Washington while traveling with an armed entourage and a big blue and white government plane. So the president has alternated between blaming Re-

publicans in Congress for blocking change and arguing that the change Romney represents is actually more of the same policies from the Bush era. At an Obama rally in Richmond, Va., on Thursday, Sen. Mark R. Warner, a Democrat, summarized the argument in pithy form.

"In 2008, we changed the guard," he told a crowd of 15,000 who turned out to see the president. "In 2012, we guard the change."

Obama made the case, as he does most days, that change has been slower than anyone might wish but that it is under way.

"Unemployment is falling," he said at a morning rally in Tampa, Fla. "Manufacturing is coming back. Our assembly lines are humming again."

"We've got a long way to go, but, Florida, we've come too far to turn back now," he continued. "We can't afford to go back to the same policies that got us into the mess. We've got to stick with the policies that are getting us out of the mess."

Panetta tells of monitoring situation in Benghazi

WASHINGTON — Defense Secretary Leon E. Panetta said Thursday that he and other top military commanders "felt very strongly" that deploying U.S. forces to defend against the fatal attack last month on the U.S. diplomatic compound in Benghazi, Libya, was too risky because they did not have a clear picture of what was happening on the ground.

"There's a lot of Monday-morning quarterbacking going on here," Panetta told reporters at the Pentagon, adding that "the basic principle is that you don't deploy forces into harm's way without knowing what's going on, without having some real-time information about what's taking place."

As a result, Panetta said, he and two other top commanders "felt very strongly that we could not put forces at risk in that situation." The commanders are Gen. Martin E. Dempsey, the chairman of the Joint Chiefs of Staff, and Gen. Carter F. Ham of Africa Command, which oversees U.S. military operations in Africa, including Libya.

Panetta was at the White House for a regular meeting on the afternoon of Sept. 11 as the first reports of the attack unfolded, a U.S. official said.

By that evening Panetta had consulted with Dempsey and Ham and had ordered a number of U.S. military forces in the region to move closer to Libya.

Defense officials say they did not receive a request for military support from the State Department as the attack unfolded.

—Elisabeth Bumiller, The New York Times

Early worries that Hurricane Sandy could be a 'perfect storm'

Hurricane Sandy, which Thursday was barreling through the Bahamas as a Category 2 storm, may be taking aim at the northeastern part of the United States and could make landfall along the Atlantic coast in the early part of next week. If so, forecasters say, the storm could become, to use a technical term from meteorology, a whopper.

"It really could be an extremely significant, historic storm," said Brian McNoldy, a senior research associate at the University of Miami, explaining that conditions are similar to those that created the famous "perfect storm" of 1991.

Hurricane prediction is, of course, an iffy business, said Dennis Feltgen, a meteorologist and spokesman for the National Hurricane Center, who noted that the storm is still days away from reaching the East Coast and that it could weaken dramatically, or even shift course and race off into the Atlantic.

The chain of events that would make Sandy develop into a grave threat to the coast involves a storm system known as a mid-latitude trough that is currently moving across the country from the west.

If it meets up with Sandy, as many computer models predict, the storm over land could draw Sandy in.

"Now you've got this giant storm complex with a lot of energy," Feltgen said.

The combined systems could produce high winds, rain and storm surge that would cause extensive damage.

New York was beginning to prepare for trouble. Mayor Michael R. Bloomberg told reporters that the city activated its coastal storm plan Thursday morning, and that it had already opened its Office of Emergency Management situation room.

Such storm combinations have happened before: One that occurred 21 years ago developed into what is now known as the "perfect storm" off the coast of New England.

That disaster was memorialized in a 1997 novel and a 2000 movie by the same name.

—John Schwartz, The New York Times

Apple profit rises 24 percent on sales of iPhone 5

In the last five weeks, Apple has revamped its entire product lineup with new iPods, iPhones, and computers. But on Thursday it said those products would be more expensive to make, nibbling into its ample profits.

That forecast for the holiday quarter was the main blemish on an otherwise solid financial report. Apple said its fiscal fourthquarter profit jumped 24 percent, largely because of a surge in sales of the iPhone, a product that now accounts for nearly half of the company's sales.

The quarter that ended Sept. 29 was the first to reflect sales of the iPhone 5, which was introduced Sept. 21. Apple has struggled to deliver enough of the devices to meet customer demand, making them tough to find in many retail stores.

The company's shares have fallen 9 percent since the product hit the market, in part because of investor concerns about short supply.

In a conference call with analysts, Timothy D. Cook, Apple's chief executive, said demand for the new iPhone was "extremely robust" and that the company had a significant number of backorders for it. He said production had picked up substantially since earlier this month.

The profit report was slightly below analysts' expectations, and Apple's stock was largely unchanged in after-hours trading. It fell 1.2 percent to \$609.54 in regular trading.

Underscoring how drastically Apple's business has been transformed by mobile products, revenue from the iPhone rose 56 percent to \$17.13 billion, making up 48 percent of the company's total revenue. It sold 26.9 million iPhones, 58 percent more than a year earlier.

Apple said its net income was \$8.22 billion, or \$8.67 a share, compared with \$6.62 billion, or \$7.05 a share, a year ago. Revenue for the period rose 27 percent to \$35.97 billion, and revenue for the full fiscal year was \$156.5 billion.

To put that in perspective, Apple's revenue for the year exceeded that of Microsoft, Google and Facebook combined.

Analysts surveyed by Thomson Reuters had expected Apple to report earnings of \$8.75 a share and revenue of \$35.8 billion.

The results were well ahead of Apple's own forecast of \$7.65 a

share in earnings and \$34 billion in revenue for the period.

—Nick Wingfield, The New York Times



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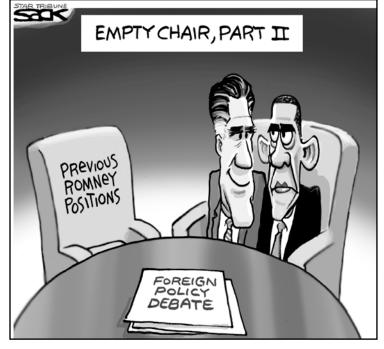
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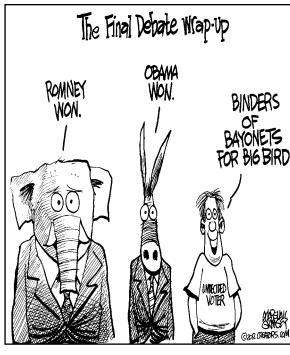
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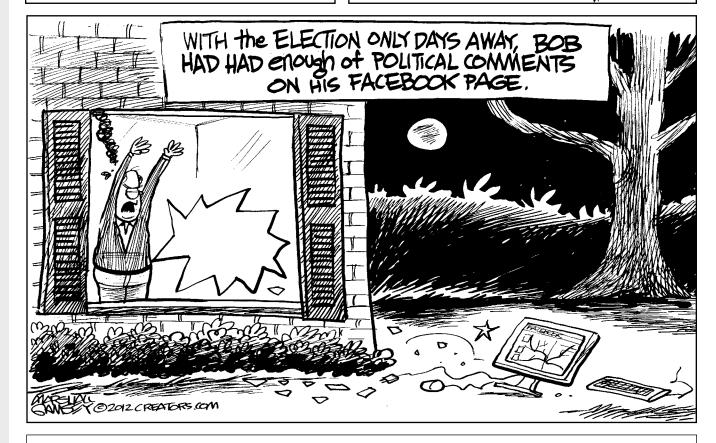
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CORRECTIONS

A reporter's notebook last Friday misstated the name of the first place winner of the Elevator Pitch Contest. The contest was won by Andrea B. Colaço, not Andrea Glaco.

OPINION POLICY

Editorials are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman Aislyn Schalck, Editor in Chief Jessica J. Pourian, Managing Editor Connor Kirschbaum, Executive Editor Ethan A. Solomon, and Opinion Editor Andy Liang.

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FUNFUNFUNFUN

Uppercut by Steven Sullivan









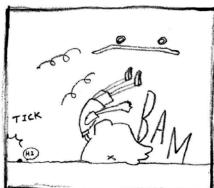
SKETCHY

by Dohyun Lee

- SKATEBOARDING SKILLS









SATURDAY MORNING BREAKFAST CEREAL BY ZACH WEINER







Sudoku

Solution, page 12

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

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 l

Solution, page 12

14+		14+		3
1	24×			8×
11+		6×	1	
20×	6×		6×	
6×		120×		
12×			30×	

Techdoku II

Solution, page 12

12×		1–		12+	
5×		1-		8×	
360×					12×
	8×	30×		3×	
3–		10×	1		5
	1		10+		2

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.

Out of Hands by Fred Piscop

Solution, page 12

1	2	3		4	5	6	7	8		9	10	11	12	13
14	\dagger	 		15		1	 	 		16	<u> </u>	<u> </u>	 	<u> </u>
17				18	<u> </u>	1	 	T		19	<u> </u>	+	1	${\dagger}$
20		<u> </u>	21		ļ		<u> </u>	<u> </u>	22					
23		1			24	 	 		25				26	27
28				29		į		30		T		31		
			32	1	33		34				35			T
		36				37		1		38				
39	40				41				42					
43				44						45		46	47	48
49		 	50				51	52	53		54		1	T
		55				56				57				T
58	59					60						61	T	T
62			\vdash			63						64	T	T
65	lacksquare	1				66	1	+		1		67	+	+

ACROSS

- 1 Go-to person
- 4 Sesame Street regular
- 9 __ and all (as is)
- 14 Whole bunch
- 15 __ cotta
- 16 Isolated from others
- 17 Ginormous
- 18 Prepare for a bout
- 19 Pool table material
- 20 They have hands 23 Roman wrap
- 24 Double curve
- 25 Sought
- 28 Casts forth
- 30 Get-up-and-go 31 New Haven collegian
- 32 Hamm of soccer
- 34 According to
- 35 Ticks off 36 They have hands
- 39 Well-informed about
- 41 Blue bird
- 42 Summer sign
- 43 Buddy
- 44 Buddy
- 45 Put into law
- 49 Some dinnerware 51 Storage tank
- 54 Cruise stop
- 55 They have hands
- 58 MPs' quarries 60 Biscotti flavoring
- 61 Sofa scratcher
- 62 Oktoberfest tune
- 63 Ruminates
- 64 St. crosser
- 65 Wedding party ritual
- 66 Noblemen
- 67 Homer Simpson's neighbor

DOWN

- 1 Box-score stats
- 2 Candy dispenser of a sort
- 3 Hire
- 4 Beetle Bailey dog
- 5 Suit material 6 Huge mouths
- 7 Puccini pieces
- 8 Have a cow 9 Get clean
- 10 To Rome With Love director
- 11 Dinner chickens
- 12 Blaster's need
- 13 "Didn't I tell you?"
- 21 Tin-star wearer 22 Model Tiegs
- 26 Antlered animal
- 27 Talk trash about
- 29 Respectful title 30 Prankster's projectile
- 33 Fine-tune
- 34 Tissue thickness
- 35 Unexpected, as some endings 36 Minute Maid owner
- 37 Be worth it
- 38 Shoebox letters 39 Dispute settler
- 40 Comrade
- 44 Subtly suggests
- 46 Garbage holder
- 47 Split with an axe 48 Tried out
- 50 Conferences
- 51 Locale, in law
- 52 Pop up
- 53 Police weapon
- 56 Reading aid
- 57 Monster's supposed home
- 58 Fitting
- 59 Try hard to win

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COMMUNITY EXCHANGE

MIT Swapfest

Where old and new technology collide

By Jericho Ricardi

CAMBRIDGE — John, a merchant cleaning out his garage at the behest of his wife, set up a table early Sunday morning on Albany Street. On this table one could find a smorgasbord of electronic parts and old computer chipsets next to a tray of wrenches and hammers, all of which were for sale at modest prices. Once he was set up, he sat down listening to an old radio no word on if it, too, was for sale — and waited for customers to start rolling in. In the background, the hammering of a typewriter could be heard next to a demonstration booth for the old Enigma computer. John was one of hundreds of buyers and sellers who flocked to the MIT campus for the MIT Radio Society's Swapfest held Sunday, Oct. 21.

Everything from HD monitors to books on elementary Chinese could be found for sale at this technology bazaar, which took up a large parking lot as well as several floors of a parking garage. For a small admission fee, shoppers could browse the goods of merchants who ran the gamut from independent flea market sellers to representatives of larger electronics stores. "We get all things nerdly," said Steve Finberg, a coordinator of the event and member of the MIT Radio Society. I can't think of a better way to put it.

As its name implies, Swapfest is a monthly event where buyers and sellers can trade their goods with like-minded electronics enthusiasts. The event draws sellers from numerous states to peddle their wares. "People like to haggle," said Tony, a seller who deals in refurbished and modified computer equipment.

Moments later, I watched as he demonstrated what he meant by negotiating the price of a disk drive with a customer. Like many sellers, he dealt primarily with older computer technology — parts that are difficult to find or replace in most modern

stores. For collectors of old technology and hardware, Swapfest is an exciting event. For me, it was just fun to see what happens when you get a huge collection of geeks and their stuff together in one place.

The goods on display at Swapfest ran the gamut from old to new, with advanced gadgets like iPads for sale at some tables and simple nuts and bolts available at others. One table was particularly popular with the student crowd - a video game collection spanning three decades worth of systems and games, from the Atari 2600 to the Xbox 360. I saw a game or two that have eluded me over the years and almost put down my pen and notepad to do some shopping of my

The attendees of the event were as diverse as the goods on display. This month, the sellers were primarily older collectors looking to unload some of their wares, while the buyers tended to be younger people looking for deals on electronics. "We get a very eclectic group of people here," said Spencer, who has been selling at Swapfest for over 25 years.

"This has been a lot of fun so far," said Joe, a UMass student attending Swapfest for the first time. He admitted that he was primarily looking for deals on old gaming hardware but that he'd been surprised at how many gadgets had piqued his interest. He said this was his first real "flea market" type gathering, but he planned on coming back. Like myself, he only recently heard about the event.

Swapfest ran smoothly and without any issues according to Precious, a security guard. "It has been very quiet, very peaceful," she said, noting that there hadn't been any incidents at the event. Indeed, Swapfest's bazaar atmosphere has a certain equilibrium about it and a sense of community that seems to foster good behavior among the throngs of visitors. This peaceful atmosphere is something that attendees can be thankful for, given the large volume of people visiting the event. Everyone here seemed to be on the same page, and one of the best

For more details contact: icjb.us.ab@gmail.com.

parts of the event for me was the welcoming atmosphere.

Weather was a concern for the outdoor part of the event, as storm clouds formed overhead around mid-morning. "We're not supposed to get rain today, but you never know," said Skip, a seller. He was prepared in the event of the worst happening, and I watched him unwrap lengthy sheets of plastic to keep his collection of PC hardware from being damaged in the event of any

rainfall. Many other sellers had tents in place over their wares. The weather ended up cooperating, and the event went off without a

Swapfest runs on the third Sunday of each month from April to October; it has been going strong for a quarter of a century. The next Swapfest won't be until April 2013, but if the enthusiasm of the attendees at this event was any indication, the next one is sure to be just as fun and successful.



Two men discuss how to fix a motorized drive axle at Swapfest on September 16. The event, a fleamarket for electronic and computer parts, is held on the third Sunday of every month from April to October. It's is located near the intersection of Albany Street and Main Street.

...magnificently blends the essence of jazz, pop, Indian classical..." - Hindustan times "...thinks in ragas instead of chords..." - The Hindu "...Tucker's fusion gives the classical tunes space to breathe..." - Indian Express Students for Bhopal at MIT, The Association for India's Development MIT and Boston chapters in collaboration with IndianRaga present: Shankar Tucker In Concert Featured vocalists: Rohini Ravada and Rohan Kymal Sunday, Nov 4, 6 pm MIT, Kresge Auditorium Early bird tickets start at \$10! ShankarTuckerBoston.org Indian Proceeds support grassroots projects in India and the fight for justice in Bhopal.



Food inspections aren't just about laying down the law and enforcing it — they are also about building trust with owners.







Cambridge food inspections: the facts on food

Out of 33 food providers, Simmons Hall receives highest number of violations — 19

Food inspections, from Page 1

a set of guidelines developed by the Federal Drug Administration (FDA), the state of Massachusetts, and Inspectional Services, to make sure all food preparation

How a food inspection works

Food inspections are routine and unannounced. Food inspectors try to hit each food preparation establishment at least twice a year. Unlike cities like New York City (which requires each food joint to display a sign with their inspections grade), Cambridge doesn't require food providers to display a food safety rating in front of their

Kimberly Fowler is the food inspector for the City of Cambridge and is in charge of North and East Cambridge, which includes the area on and around MIT. During each routine inspection, Fowler brings both a standard food inspections form and a remarks form. The food inspections to check for as well as the respective code from the Massachusetts Merged Code. The

INTERACTIVE:

INSPECTIONS

Interactive by

and Joanna Kao ONLINE MEDIA STAFF

8 YEARS OF

protection management," "equipment and utensils," and "insect, rodent, animal control." Some items are marked in red, which indicate "critical violations" — violations that "can contribute to foodborne illness if not corrected," according to the FDA, says Fowler. These violations range from having food in the wrong cooling temperatures to employees not properly washing their

Fowler can visit about five different places on a typical day. When she arrives, she finds the person in charge and shows them her badge — there have been incidents of fake inspectors in other parts of the country. "Ideally, I like to see what's cooking and cooling, because those are critical functions in a kitchen, and as I move my way around the kitchen, I look for things like hand washing, general sanitation, cleanliness, check all the coolers and see if there are any things hot holding," Fowler said.

She finds that the number of violations varies — she's seen many with just one or two, and some up in the twenties. "Just form contains a list of items that she has by looking at something by sight doesn't mean that it's a safe place to eat. They might have a night crew come in and do all their items are divided into categories like "food cleaning, so it's pristine from the outside,

but maybe people in the back aren't washing their hands. Or maybe there's a cooler that's out of temperature, or maybe they're not cooking their chicken at a proper

If Fowler finds critical violations or more than several minor violations, she schedules a re-inspection, typically a week later. "On critical violations, I always go back and do a re-inspection, even if it's just one critical violation," Fowler said. "We want to make sure that they're training the people and that they're handling the violations, so that when I come back, I can see that they're doing things the right way."

But food inspections aren't just about laying down the law and enforcing it — they are also about building trust with owners. "If it's an established place and I've been there three or four times and I know they're going to take care of it, I'll just tell them 'see you next time' and follow up next time,"

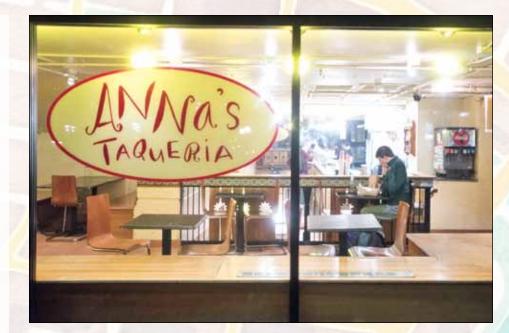
And then there's the other side of the food inspection equation — the restaurants. The Tech contacted the 33 food providers included in the interactive online. Most ex-

also expressed satisfaction with the inspec-

"I strive to be a surrogate inspector all the time while on site and make sure my employees know the health code," said Melissa Jasper, owner of The Friendly Toast. "Perfection isn't possible at all times in a restaurant as busy as ours. I spend a lot of time reminding cooks to wear gloves — this is a new law, and some of the cooks have a hard time remembering it, but the sheer volume is a good indicator of food safety, since nothing sits around long enough to

Mike Kamio is the owner of Anna's Taqueria, which has locations in Brookline and Boston in addition to their location in the Student Center. Although all three cities have their own food inspectors, Kamio has found that all three cities have been consistent across the board.

"We find that Cambridge Health Inspectors are great to work with, said Lo Vo from Momogoose. "They may be strict about code enforcement, but their approach is always nice and constructive, ultimately wanting to help businesses succeed in Cambridge through clean operations."







'Just by looking at something by sight doesn't mean that it's a safe place to eat. They might have a night crew come in and do all their cleaning, so it's pristine from the outside, but maybe people in the back aren't washing their hands. Or maybe there's a cooler that's out of temperature, or maybe they're not cooking their chicken at a proper temperature."

Kimberly Fowler, City of Cambridge food inspector



DATA HIGHLIGHTS

Highest number of violations in 2012

Simmons Hall

Inspection took place on Oct. 23 New manager trained on Oct. 11 Prior inspection: 0 violations on Feb. 29, 2012

Other dorms in 2012

McCormick Hall

Next House

MacGregor Convenience

Baker House

Average number of violations for all restaurants over 8 years

Number of establishments without any violations since last inspection



INTERACTIVE

http://bit.ly/foodinspections

Top three violations over 8 years

"Non-food contact surfaces clean"

"Floors, constructed, clean, good repair, dustless cleaning methods"

"Walls, ceiling, attached equip, constructed, clean, good repair, dustless cleaning methods"



ARCHITECTURE@MIT

More than objects

Architecture students imagine 'semi-permanent' spaces beyond the usual white tents

By Jenny Xie STAFF WRITER

This is the second of a two-part Q&A series spotlighting two campus pavilion projects designed and built by MIT Master of Architecture students.

The Framework Pavilion near the corner of Mass. Ave. and Vassar St. was designed and constructed by architecture graduate students Robert White, David P. Moses, Barry Beagen, and Trygve H. Wastvedt. The Tech had a chance to sit with White to discuss the significance of Framework and what we can expect from architecture students in the near future.

The Tech: What is the concept behind this project?

Robert White: The driving force be-

hind the project was to develop a process that allows a designer to quickly go from envisioning non-standard geometries to producing a full-sized structural object. Our goal was to create a way to shield the user from some of the difficulties in moving from a digital design environment to a manufactured product by incorporating a malleable yet buildable structural system while also automatically outputting the files necessary to cut all the individual parts on a CNC machine.

TT: From conception to final product, can you estimate how many hours the team spent on the project?

RW: We began this project as part of a class taken during IAP 2012, although we continued to work on it throughout Spring 2012. Many months were spent refining the design and developing the necessary software and scripts. The powerful thing about the project is that once we had the digital toolset running it took far less time to produce the built structure than would normally be the case. It took about one week to cut all of the pieces, both the wood posts and the steel bases, and another week to assemble the final structure in its current form. With the work of creating the digital-to-built process behind us, we could now produce a series of structures with very different shapes relatively quickly.

TT: How is Framework different from the Kerf Pavilion, and how is it unlike any other space on campus?

RW: The projects share little in common. Although they were both designed

as an investigation of fabrication methods with wood, the Kerf team exploited the layered nature of plywood to generate curvature within surfaces. Framework operates by taking smaller pieces that attach to each other with a structural joint and aggregating them to create a larger whole. We feel that these projects begin to talk about the idea of the "semi-permanent" spaces on campus - small projects that can be quickly designed and built to serve MIT community events yet, unlike the white tents that currently pop up at special events, speak to MIT as a place that values not only utility but also creativity.

TT: What does Framework mean for the future of design and construction?

RW: Both Framework and Kerf really show that the divide between design and manufacturing is quickly shrinking. Although we used a fully digital process, everything from the software to the machines was consumer grade. The tools that we have created enable one person to design, manufacture, and construct a

Both Framework and Kerf really show that the divide between design and manufacturing is quickly shrinking.

—Robert White G FRAMEWORK CO-CREATOR

complex structure out of common materials quickly and cheaply. We also devised a simple yet powerful labeling system that gives each post a location within the larger assembly and tells which other pieces connect to it. Rather than having to rely on a set of construction drawings, the logic of assembly is coded into each piece, which means that anyone can start putting together pieces within five minutes of being shown how to read the labels. No longer is construction limited to those with many years of experience.

TT: How long will Framework and Kerf be around? Will they survive cold

RW: We hope to keep both projects up as long as Mother Nature will let us! We've designed the projects to weather a proper Boston winter so we hope to see them make it through until next summer. If the projects last until then, the current schedule is to begin disassembly around late spring/early summer.

TT: Are there any new large-scale architecture projects the campus can look forward to in the near future?

RW: As far as student-built designs, the class that these projects came from will be continued this IAP 2013 and, as it stands now, we hope to see one or two new and exciting projects somewhere on the MIT campus before long.



The Framework Pavilion, designed and built by architecture graduate students Robert White, David P. Moses, Barry Beagen, and Trygve H. Wastvedt, explores the idea of semi-permanent spaces on campus.

BOOK REVIEW

The other side of love

This is How You Lose Her is a masterpiece of real-life expression

By Bryan Hernandez

In This Is How You Lose Her, Junot Díaz, MIT Professor of Literature, recipient of the Pulitzer Prize in 2008 and recent winner of a MacArthur Genius Grant, speaks on love. We've all heard love stories before, so in the strictest sense this book isn't anything new. A mother's devotion to her family and love for her children drives her to withstand crippling captivity in fettered domestication; an older brother abuses his family in protest over his own medical decline; a cheater faces the cold, splintering reality that he's fucked up one too many times and the love of his life is gone for good.

Been there, read that.

Or maybe not.

These are not stories you read because they're new; these are stories you read because they feel real, for better or for worse, and my guess is that these will evoke real feelings for you, too. This Is How You Lose Her shows us the not-so-talked-about sides

of love — hurtful love, regretful love, the love you threw away and won't ever get back. They're the ones no one wants to talk about. They divulge the details better left between you and God — "shit you wouldn't even tell your boys drunk," to quote Díaz.

novel that needs some gluing. Díaz is playing with convention here and it begs for a second reading when you finish the book and ask yourself, "It's done? Did I miss something?" It most certainly deserves a careful reading.

Reading Díaz feels like listening did be-

Reading Díaz feels like listening did before you even knew what a book was — like before you were told there was a right and a wrong way to do it.

The book unwraps into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplant who can tell a story like an honest man bleeds. Each one of these is a good story, that's for sure. But the separation between each one is pushed to its limits, so that by the end of the book you aren't sure if you read a collection of short stories or a fragmented

fore you even knew what a book was - like before you were told there was a right and a wrong way to do it. It's deceiving because the language is so accessible that it's easy to let your guard down and miss some of the higher-level structural and political games Díaz plays right in front of you, like the effect of time on feelings or the persistent double standard for sexual relationships. These sto-

This is How You Lose Her

By Junot Díaz

Penguin

September 2012

ries are not tightly packaged puzzles with twisted plot lines, intricate sentences, and opaque symbolism - they're a slam poet's pass at prose, a torch-light procession of unapologetic confession. The language is crude but articulate — offensive to the self-important and over the heads of the culturally insular — the metaphor natural and clarifying. Díaz's ease with expression is often times mesmerizing enough, and if that's all you get out of this book, it will be satisfying. But if you look for more, Díaz will connect with you, and you, eager reader, you will feel.

BOOK REVIEW

Remembering the days the abyss gazed back

New volumes explore different angles of the Cuban missile crisis

By Roberto Perez-Franco
STAFF WRITER

When a reporter mentioned the Cuban missile crisis during a White House briefing, then-press secretary Dana Perino "panicked a bit" because she didn't know what it was. "It had to do with Cuba and missiles, I'm pretty sure," she ventured. One day in particular, Oct. 26, 1962 (exactly 50 years ago) was arguably the single most dangerous moment in human history, with the United States and the Soviet Union on the verge of unleashing upon each other thermonuclear Armageddon. Ms. Perino's candid admission is often depicted as a funny, self-deprecating anecdote. Call me paranoid, but it gave me goose bumps: I think such a pivotal event, and the lessons it taught us, should not be forgotten.

If you do not know the incident, I ask you to do yourself a favor: Pick up a good book about the subject and read it. There are many good ones: One Minute to Midnight (Vintage, 2009), One Hell of a Gamble (Norton, 1998) and Essence of Decision (Pearson, 1999) stand prominently in my personal library. As the world marks half a century since the Cuban missile crisis, some fine new volumes have been published. I want to highlight four below, each presenting new angles on this perilous event.

The first is Cuban Missile Crisis: the Essential Reference Guide, edited by Priscilla Roberts (ABC-CLIO, 2012). If you don't know how Operation Anadyr, Operation Mongoose, the Berlin Crises and the Bay of Pigs Invasion relate to the Cuban missile crisis, this is the book for you. It has an eight-page long, no-nonsense summary of the causes, course, and consequences of the crisis. This is followed by almost two hundred pages of entries on key people, institutions and concepts. The primary documents in the book include letters between Kennedy, Khrushchev, Castro, and other primary players, and the famous telex that the Soviet Premier sent to the American President on Oct. 26 warning against pulling "on the ends of the rope

in which you have tied the knot of war," lest it become "necessary to cut that knot." A detailed chronology starts with the Monroe Doctrine in 1823 and ends with Castro's resignation in 2008.

If you do not know the incident, I ask you to do yourself a favor: Pick up a good book about the subject and read it.

Many have argued that the Crisis, far from being Kennedy's "finest hour," was the result of his own miscalculations. Blind Over Cuba: the Photo Gap and the Missile Crisis, by David Barrett and Max Holland (Texas A&M University Press, 2012), interprets the nuclear build-up by the Soviets in the Caribbean as the result of a miscalculation of the Kennedy administration: The missiles were sent as a response from Moscow to Kennedy's 1961 declaration that the United States enjoyed a decisive nuclear superiority.

The book also blames the willingness of Cubans to become a nuclear outpost for the Soviet Union on Kennedy's disastrous Bay of Pigs invasion and the subsequent efforts to assassinate Castro through Operation Mongoose. The Kennedy administration's decision to limit surveillance flights over Cuba for five weeks in the late summer and early fall of 1962, dubbed by JFK's detractors as the "photo gap," allowed Soviets to sneak the nuclear weapons into the island. The authors claim that even once the crisis began, a failure of US intelligence, due to Washington's self-deception as much as to Moscow's duplicity, almost resulted in a catastrophe. Had the terms under which the crisis was settled been clearly under-

an innovative gospel concert, a premiere performed by the MIT Wind

Ensemble and a workshop on an opera-in-progress.

stood by the public at the time, the authors claimed, a different interpretation of who had swerved in this nuclear game of chicken would have resulted.

The Fourteenth Day: IFK and the Aftermath of the Cuban Missile Crisis, by David Coleman (W.W. Norton, 2012) reminds us that the tensions and difficulties were not over after the thirteenth day, now the stuff of legend, but persisted for several months afterwards. Coleman focuses on the period from Oct. 29, 1962 through February 1963, "a crucial and often overlooked period of change in the Cold War," particularly on "how Kennedy and his advisers grappled with the issues and challenges raised and changes wrought by the Cuban missile crisis." This "remarkable window into Kennedy's presidency" is possible thanks to President Kennedy himself, who — possibly with a memoir in mind — serendipitously had begun to secretly tape his presidency. Fortunately for historians, "Kennedy's most prolific period of taping was during and immediately after the Cuban missile crisis."

After reading and thinking about the Cuban missile crisis, I can't help but feel that Kennedy, Khrushchev and Castro were victims of their own ideologies.

Yet more important for Coleman's goal, Kennedy kept the tapes rolling in the following months, a decision that affords us now a fly-on-the-wall perspective, with more "nuance and objectivity," of how intense Kennedy's battles with the press after the crisis were, and how intimately involved

he was in these struggles.

Finally, October 1962: The "Missile" Crisis as seen from Cuba, by Tomas Diez Acosta (Pathfinder Press, 2012), is an account of the crisis from the perspective of Castro's Cuba: It serves as a sort of antidote to Robert Kennedy's hagiographic account of the event, Thirteen Days. The latter is written from a self-serving perspective flattering to those in the Oval Office, with the transparent objective of using it in Kennedy's own presidential campaign in 1968. The former is written by one who participated in the mobilization of Cuban forces as a 16 year old and then spent his life as part of Cuba's military. Unapologetically aligned with Castro's rhetoric, the book has to be read, just as any other, with a healthy pinch of salt. But it represents an opportunity to understand how the events were presented to — and even today are understood by — a large swath of the Cuban population. This in itself is a useful reminder that, in complex geopolitical situations, truth is often a relative term, events are interpreted differently by different players, and history is written with different ink in different places.

After reading and thinking about the Cuban missile crisis, I can't help but feel that Kennedy, Khrushchev and Castro were victims of their own ideologies. In one of my favorite films of all time. Errol Morris's "The Fog of War," Robert McNamara speaks about the lessons he has derived from his life. Regarding the Cuban missile crisis, he has a chilling confession: "At the end we lucked out. It was luck that prevented nuclear war. We came that close to nuclear war at the end ... Rational individuals came that close to total destruction of their societies, and that danger exists today." Every time I hear that, I think of Nietzsche's famous aphorism, warning those that fight monsters to make sure they not become monsters themselves, and warning that if we gaze for long into an abyss, the abyss will also gaze back into us. Fifty years ago, it did. And we forget it at our own peril.

arts.mit.edu/va

MIT VISITING ARTISTS PROGRAM



Frosh fifth week flags

Flags, from Page 1

don't know where to find help.

Like Johnson, Richard C. Spence '16, was unsurprised when he was flagged in 8.012, considering his performance on the first exam. After learning his exam score and receiving a flag, Spence made changes to his work habits.

"I started collaborating a little more on the pests, and got a decent score on the last one," Spence said. He met with his professor to discuss exam strategy, and believes things are look-



graphic on fifth week flags!

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VMware to provide software for HarvardX CS50x

EdX and VMware, Inc. announced an agreement yesterday to provide VMware software to those taking HarvardX's CS50x course, Introduction to Computer Science. All students enrolled in CS50x will now have access to VMware Fusion 5 and VMware Workstation 9 — virtualization software that allows users to run different types of virtual machines (Windows, Linux, etc.) on their computer — for the duration of the course at no

"We're very excited to join edX in its mission to deliver high quality online education," said Dr. Stephen Herrod, VMware Chief Technology Officer and Senior Vice President of Research & Development, in the press release. "By providing VMware Fusion and VMware

Workstation products to all CS50x students at no cost, we're helping to remove the barriers to obtaining a top-flight computer science education online. Students around the world will get to use the world's best virtualization products to support their learning."

This announcement comes on the heels of a partnership with Cengage Learning, who now provides online access to Principles of Biostatistics, the textbook for HarvardX's PH207x — Health in Numbers: Quantitative Methods in Clinical & Public Health Research. MIT offers VMWare to enrolled students already, but now anyone enrolled in the edX course (which is open to everyone) will have access to

—Stan Gill

Solution to Techdoku I

from page 6

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

Solution to Crossword

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Solution to Sudoku

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

Solution to Techdoku II

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



write for us





FRIDAY, OCTOBER 26, 2012

The future of edX in the real-world classroom space

Received well by students so far, more evaluation and testing necessary to assess future

EdX, from Page 1

class, teachers can spend less time on theory and more time showing students how to untangle more involved problems.

"The teacher doesn't have to spend time in class on stuff like, 'What's the definition of momentum?" said Haley M. Hurowitz '16, who is taking the Experimental Study Group (ESG) version of 8.01. She said that the classes were basically problem-solving sessions.

The mainstream TEAL version of 8.01 also uses reading questions and follows the same approach, but using standard PDF course notes rather than the multimedia mix used by ESG and Concourse students.

"Most of the students are doing the reading questions on time, and the average score on assignments is usually between 80 and 90 percent," Lecturer Saif Rayyan wrote in an email to The Tech. Rayyan, lecturer for 8.01, along with Analia Barrantes, helped develop the online content. As postdocs in the Research in Learning, Assessing and Tutoring Effectively group, both previously looked for ways to improve classes by analyzing student data. Rayyan maintains a keen interest in a data-driven approach to improving education. "One of the main reasons we are using edX is the great potential of being able to collect more data about student performance," he wrote. "In the future, we would like to enable the teacher to look at performance data on the assignments before class, figure out what concepts were harder for the students, and adjust the presentation during class."

Reading questions (branded as "concept questions") are also used in 3.091 Introduction to Solid-State Chemistry, albeit in a limited way. Students are only required to

answer one multiple-choice question before each lecture.

Student perspectives

"I have asked a few students if they liked the system, and many answered that they liked doing the questions," says Rayyan, though he admits that his sample size is small. "It helps them go over the basic concepts quickly before class."

However, not everyone uses the reading questions honestly. According to mainstream 8.01 students Hayden R. Jansen '16 and David S. Jin '16, who said that though they did not cheat, they were aware of a way to game the system that others might be using.

Most of the reading questions for the mainstream 8.01 students are multiple-choice; since students are allowed several submission attempts, they can complete the reading questions without knowing the material if they work in groups. Each student in the group simply uses up one submission on a different guess at the answer. One of the students will chance upon the correct answer, which can then be copied by the rest of the group with no penalty

"I guess in a way it's kind of to be expected," Jansen said. "It's kind of hard to imagine MIT students not trying to find a way to get out of it."

For Hurowitz, the setup in which students learn concepts and answer reading questions outside of class has sometimes proved to be a timesaver. "If a concept is something you already know, you can just go through and answer the questions. If not, you know exactly where to find the notes on that topic." Since the basics are taken care of before class, "The teacher doesn't have to waste time on teaching concepts and can work on harder problems in class, so that the p-sets are easier to do."

The problem sets for ESG and Concourse students in 8.01 are also on the interactive edX platform, which they can use to check their answers and get immediate feedback. However, students still submit write-ups of their solutions. "Basically I've gotten all perfect p-set scores [because of edX]," Hurowitz said. "I've often been like, 'Oh, I would have missed that question if I hadn't checked it on edX," she explained.

Hurowitz also said she appreciated the organization of the content on edX. Since all the notes, examples, and problems for a topic are in one place, studying for tests is much easier, according to Hurowitz.

Jansen said that among those not completely satisfied with the system were some upperclassmen he knew who were retaking 8.01. "If you're going to do [the reading questions] correctly, you have to already know it [the material] beforehand," he said, noting that the class model left little room for the traditional role of the lecture as a time for learning new concepts. For Jansen, the new class structure is unnecessary. "I'm pretty happy with the lecture style," he said, thinking of 5.111 and 7.012. But he admits, "When [edX] is not glitchy, it's alright."

Evaluating edX

Last semester, 20 students in 6.002 Circuits and Electronics volunteered to be part of a first test of the blended model, which used edX materials more extensively than any course now. Agarwal estimated that the students in the volunteer group each spent between six and ten hours on the class each week, mostly online, watching instructional videos and completing exercises on the MITx software platform at their own pace. The in-person component of the blended model took a back seat to the online materials. Two hours each week were set aside for face-to-face classroom interaction, including discussions and physical demonstrations, but these optional classes were poorly attended.

Several of the students spoke positively about the class with *Technology Review*. Agarwal said that students liked the flexibility the online format afforded. Students could work on the class when and where they wanted to. Even the pacing was adjustable — video snippets could be paused or watched at 1.5x speed as needed

Agarwal also suggested that this flexibility was more suited to students' sleep schedules than traditional lectures would be, citing peaks in downloads between midnight and 2 a.m. He also entertained the idea that a new style of learning was needed for a "new generation of students who are much more comfortable with digital technology."

Agarwal declined to say whether the 20 students testing out the blended model performed better than the rest of the class. "The group was selfselected," he said. "It's difficult to do an apples-to-apples comparison."

The experiment is not being repeated in this semester's 6.002 class. "This time around it's the traditional campus class, but students have been pointed to the edX materials," Agarwal said. The second iteration of 6.002x, the massive open online course on edX, is still in progress.

Agarwal also said that many of the efforts to integrate edX into residential classes fall into the "exploratory category." MIT is currently testing how well laboratory experiments can be simulated online in the on-campus 6.004 Computation Structures class. There are clear cases when something in the in-person experience is lost.

"If you burned a resistor, you couldn't smell it," Agarwal said. "A lot of students don't like the fact that equipment breaks, but that's a fact of

real life."

Not everything edX has brought to the table has been a new idea. 8.01 previously used a paper version of the reading question system, and students were already doing physics problems and getting immediate feedback online years ago on Mastering Physics. Lecture videos have been on OpenCourseWare for nearly a decade. EdX aspires to fix the flaws of older systems and introduce new features. 8.01 Professor Deepto Chakrabarty said that physics students will soon be able to take advantage of edX's symbolic manipulation abilities. "You enter a mathematical expression, and it can tell you if it's equivalent to the answer."

But Rayyan argues that it's more than that. "A lot of the learning happens outside class — whenever students read or watch content, solve p-sets, answer questions, or work together collaboratively. EdX will enable us to understand and improve the quality of learning outside class. By collecting data on what people do in edX, we will be able to tell what educational resources helped them, what did not, and what were their points of strength and weakness." All of this is still a work in progress, however. "Professor Isaac Chuang is working with edX on integrating analytics in the current system to enable us to look at the data more effectively."

"At some point in the semester we will ask students for more detailed feedback to better evaluate what is working and what is not," Rayyan added.

The extent to which edX will be incorporated in residential classes remains to be seen. Everything is still in the process of being refined, according to Agarwal. "Different professors are experimenting with different approaches on campus."

"I think it's too early to say what the optimal way do this is," Chakrabarty said.



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14 THE TECH FRIDAY, OCTOBER 26, 2012

Emphasizing community support at the Institute

MIT Together campaign launched to showcase resources available around MIT MIT Together, from Page 1 a 5.0, and is just sort of waiting a the launch of this site, she can see resources, essentially." put together by the support

"The Together theme came out of this: students who are overwhelmed or isolated tend to think they're the only ones who have the challenges that they have, or who aren't succeeding with ease at MIT," explained Gearty. "There's this kind of legendary MIT student who doesn't sleep and takes nine classes and skates through with

couple decades for their Nobel

Gearty emphasized that MIT Together is not just for undergraduate students, but for graduate students as well.

Laurel M. Heckman, a first-year graduate student, said that she would visit her undergraduate college's website when she had questions about academic issues. With herself visiting MIT Together as

"If it's something I'm embarrassed about, it'd be nice not to have to ask my friends if I didn't want to," Heckman said.

Others agree. "I thought the website was pretty useful," said Kyle I. Murray G. "There actually wasn't a whole lot of actual content on the site itself, but it was links to

"I like the idea. I feel like I kind of still didn't have all of my questions or all of my information needs satisfied when I left the site, but it was still better than what information I had before," Murray

In the near future, MIT Together plans to add more content to the site, such as a variety of student testimonials and helpful documents put together by the support groups at MIT. Ideally, Gearty wants to see everybody who has a stake in supporting MIT students to feel that they have a role in the site.

"To me, a sign that this campaign is successful is if over time, it becomes part of the vernacular at MIT so that a student who is thinking about getting support knows Together at MIT is the place to go to find that," said Gearty.



Hailan "Hannah" Pang '16, a volunteer for the Underclassmen Giving Campaign, receives donations from a student in Lobby 10 on Thursday. The format of the Underclassmen Giving Campaign is different than in previous years. Instead of being framed as a class competition for the highest participation percentage as it has been in past years, members of the classes of 2014, 2015, and 2016 donate to a general fund and then vote for a specific public service project looking for funding from the Public Service Center (PSC). The person that receives the most votes will win a PSC Expedition Grant to support their project. The candidates are listed on the undergraduate giving campaign website http://giving. mit.edu/underclassmen-campaign/candidates.html.



A new Hubway station located near the Kendall T Stop was unveiled this week. Google provided the funding for the station.

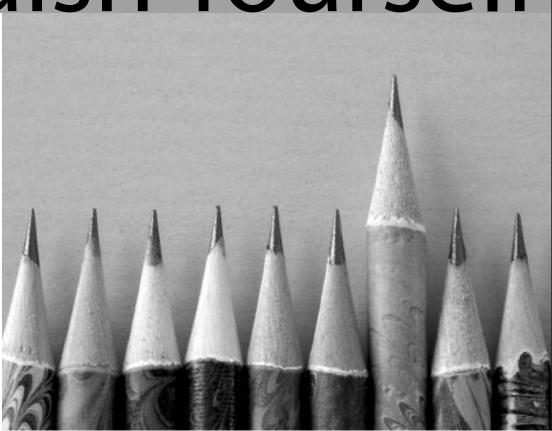
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National Football League predictions: week eight

Patriots will defeat Rams at Wembley Stadium; Packers to dominate Jaguars

By J. Austin Osborne SPORTS STAFF

Miami Dolphins @ New York Jets

Sunday, Oct. 28 1 p.m. In an AFC East Showdown, the Dolphins travel to New York to take on the Jets.



ning two straight games against Cincinnati and St. Louis. Week after week, they continue to dominate against the run, allowing just over 75 yards a game.

This means it's up to Mark Sanchez to win the game for the Jets, which he may not be capable of doing. Although Sanchez played well in his past two games, he is still one of the most inconsistent quarterbacks in the league. The Jets made far too many mental mistakes in their game against the Patriots last week, which cost them the win. Games in the AFC East always seem to go down to the wire, and this one should be no different.

Prediction: 23-17 Dolphins San Diego Chargers @ Cleveland Browns Sunday, Oct. 28 1 p.m.

Although San Diego comes off a bye week, they also recently suffered an awful loss to the Denver Broncos. They had a



huge 24-0 lead going into halftime before allowing 5 straight touchdowns to lose 35-28. After their promising 3-1 start, it appeared that the Chargers

had finally gotten over their well-documented early-season struggles. However, after dropping two straight games their playoff potential is questionable. Last week against the Colts, Brandon Weeden threw two touchdowns but didn't get enough help from his rushing game to win. Trent Richardson played with an injury but was largely ineffective. Although Weeden has improved since the beginning of the season, the Browns do not have enough talent to beat a reeling Chargers

Prediction: 27-10 Chargers **Indianapolis Colts @ Tennessee Titans**

Sunday, Oct. 28 1 p.m.

Andrew Luck became the first Indy quarterback to run for two touchdowns in a game since 1988 in the Colts' 3rd win last



season. Luck has already led them to more wins than they had last season, and he has everyone talking playoffs in Indianapolis. The Titans recently

won a close one with the Buffalo Bills, mostly due to an outstanding effort from Chris Johnson who rushed for almost 200 yards and had his best game of the season. Johnson cannot be expected to perform this way every week, however. He has been incredibly inconsistent throughout his entire career, mostly because of his running style. If Johnson cannot break any long runs, he is largely ineffective for the majority of the game. The Colts will need to contain him if they want to win this game.

However, considering that their run defense is not particularly stout, this may prove difficult.

Prediction: 20-16 Titans

New England Patriots @ St. Louis Rams Sunday, Oct. 28 1 p.m.

Technically, this is a home game for the Rams, but in name only. Both teams will travel to Wembley Stadium in London,



England to battle this week. This may actually be good news for St. Louis as they normally play in a dome known to have a faster surface than natural

grass. The Patriots usually thrive in dome settings because they can move the ball quickly down the field. New England comes off a game that they probably should have lost. Save for one half against the Bills and their game against Tennessee, they have lacked their normal dominance this season. Lately all of their games seem to be decided in the closing minutes, and they really need to avoid allowing the Rams to hang in the game. New England's biggest problem is their secondary. If they allow Sam Bradford to move the ball down the field and keep St. Louis in the game, it could turn out just like the Seattle game from earlier in the season with the Rams winning in the waning minutes.

Prediction: 31-27 Patriots Jacksonville Jaguars @ Green Bay **Packers**

Sunday, Oct. 28 1 p.m.

Jacksonville running back Maurice Jones-Drew sprained his foot and Blaine Gabbert injured his shoulder last week in



the loss against Oakland, which hampers the Jaguars' chances of winning. Former Dolphins QB Chad Henne should start this week, but it won't matter.

The Packers are coming together again after looking stagnant early in the season. The loss of Charles Woodson to a broken collarbone will hurt them in future games, but they have plenty of talent on their defense to stop Jacksonville. Expect a big game from Aaron Rodgers and a big Pack-

Prediction: 38-13 Packers Atlanta Falcons @ Philadelphia Eagles Sunday, Oct. 28 1 p.m.

Michael Vick plays his old team as the Falcons come to town. Andy Reid is notorious for winning games after coming off a



bye week. In fact, the Eagles have never lost in the game after their bye in his entire tenure. The key to this game will be how well the Eagles can run the ball.

If Philadelphia can rush effectively, they should be able to take advantage of Atlanta's weak run defense. The Falcons haven't looked particularly good these past three weeks, even though they won all three games. Michael Turner has seemingly disappeared this season, as he's been totally ineffective on the ground. Look for LeSean McCoy to have a big game and for the Eagles to pull out a thriller.

Prediction: 27-21 Eagles Washington Redskins @ Pittsburgh Steelers

Sunday, Oct. 28 1 p.m.

Washington lost a heartbreaking game last week to the Giants as they allowed Eli Manning to formulate a late game come-



back. Fumbling the ball in key situations did the Redskins in last week. Otherwise, they played their best game of the year. Rookie Alfred Morris continues to

impress on the ground and Robert Griffin is maintaining his stellar play. Pittsburgh is coming off a bye week, so they should have a good game plan to at least slow down Washington's great running game. Ben Roethlisberger should be able to take advantage of the Washington secondary through the air, but this game will depend on how well the Steeler defense can step up and slow Griffin and Morris.

Prediction: 24-20 Redskins

Seattle Seahawks @ Detroit Lions Sunday, Oct. 28 1 p.m.

Detroit hasn't looked right the entire year. Matt Stafford has thrown more interceptions than touchdowns and Calvin



Johnson only has 1 TD so far on the year. They are 2-4 and are suddenly in "must-win" territory, especially in the incredibly competitive NFC North.

They will have more struggles this week against Seattle, as the Seahawks boast one of the best defenses in the NFL. Seattle hasn't allowed more than 23 points in a game this season and they have some impressive wins on their schedule. The biggest problem with the Seahawks is their inconsistency in the passing game. They have the 31st ranked passing attack in the NFL, which is not good enough to make opposing defenses respect their throwing game. To win, Detroit must key in on Marshawn Lynch and force Russell Wilson to beat them through the air, which they should be capable of doing.

Prediction: 17-10 Lions Carolina Panthers @ Chicago Bears

Sunday, Oct. 28 1 p.m.

Carolina is in a tailspin. After three straight close losses, they travel to Chicago to play the scorching-hot Bears. Chicago is



on a four game winning streak, mostly due to their incredibly tough running game. They average over 130 yards per game, while only allowing 71 yards

against them. Cam Newton will struggle to find running lanes all game, and he will need to try to win through the air. Chicago should have no problem taking advantage of Carolina's defense and win easily.

Prediction: 17-6 Bears Oakland Raiders @ Kansas City Chiefs

Sunday, Oct. 28 4:05 p.m.

Oakland won an incredibly ugly game last week against the Jaguars, but every win counts the same. They go into this Chiefs

game at 2-4 in a very winnable AFC West division. Oakland will need to find a way to try to slow down Jamaal Charles. If Charles



can break a few big runs, the Chiefs will literally run away with the game. Carson Palmer has been decent this season, only throwing four intercep-

tions. He will need to continue to hold onto the ball for the Raiders to have a chance at the playoffs.

Prediction: 16-13 Raiders

New York Giants @ Dallas Cowboys Sunday, Oct. 28 4:25 p.m.

In the matchup of the week, the Giants

battle the Cowboys for bragging rights in the NFC East. Eli Manning led the Giants



on a comeback drive last week against the Redskins and he has cemented himself as an early MVP candidate. The Giants are tough to stop because their offen-

sive attack has been so balanced this year. If an opponent tries to take away one dimension of their offense, New York can just win with the other. The Cowboys will simply have to play a solid all-around defensive game. Dallas has one of the best pass defenses in the league, so they will not make it easy for Manning to move the ball. The winner of this game may be decided by whichever quarterback can lead their team on a key drive late in the game, and in those situations, Eli Manning has proven to be one of the best in the league. Prediction: 30-27 Giants

New Orleans Saints @ Denver Broncos

Sunday, Oct. 28 8:20 p.m.

In a battle of marquee quarterbacks, the Saints come into the game as one of the worst teams in the league in everything but



passing. They have practically no running game to speak of, and their defense has been absolutely awful this year. This should leave an opening for Denver to

pick up another win this week, as Peyton Manning has feasted on bad pass defenses for his entire career. Even now, with a lower velocity on his throws, he should have no problem picking apart this Saints defense. The Broncos win in a shootout.

Prediction: 38-31 Broncos

San Francisco 49ers @ Arizona Cardinals Sunday, Oct. 28 8:35 p.m.

The key to the 49ers' season is how well Alex Smith can manage the game, and this one is no different. Arizona is known for



their defense, so Smith will have to avoid making mistakes. The 49ers would do well to keep the ball in the hands of Frank Gore and Kendall Hunter, so they

can pound the Cardinals with their No. 2-ranked rushing attack. Arizona will have a very hard time moving the ball against the San Francisco defense, especially with John Skelton running the show. The 49ers should win in a defensive struggle.

Prediction: 20-9 49ers



16 THE TECH FRIDAY, OCTOBER 26, 2012

SPORTSSPORTS SPORTSSPO



Trinity P. Leonard '13 (left) and Kristine A. Bunker '14 (right) leap to block the ball in the women's volleyball match against Wellesley College on Tuesday night, the last home match of the season. MIT lost 3 sets to 2, making their overall record 26-5. Their last regular season match is away at Mount Holyoke College this Saturday.

Men's soccer shuts out Elms College 8-0 Monday

Recover from loss to Coast Guard Academy; Engineers improve to 10-4-1 for season

By Charlotte Brackett

Following an upsetting loss to Coast Guard over the weekend, the MIT men's soccer team turned things around quickly when they shut out Elms College 8-0 on Monday night. The Engineers improved to 10-4-1 for the season, while the Blazers dipped to 6-7-2.

Right from the beginning, MIT took control of the ball, taking eight shots at goal before the Blazers took their first. Keeper Nicholson Pennant was kept busy in the first half, saving six shots in the first 19 minutes alone, while MIT goalie Jake L. Amereno '16 saw little action and did not have to make any saves. In the 24th minute, Matthew A. Monheit '14 scored the

first goal of the night, and what turned out to be the game-winning goal, with assists by Austin E. Freel '16 and Nicholas A. Diamantoni '15. Just five minutes later, Jonathan K. Tebes '14 scored his second goal of

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the season. With less than three minutes remaining in the first half, Sean D. Bingham '16 shot the ball into the left corner of the cage, giving the Engineers a solid lead of 3-0 over the Blazers going into the second period.

With Christian Kostka in net for the Blazers and Samuel G. Cannon '15 replacing Amereno, the second half was underway. In the 56th minute, Joseph P. Schuman '16 scored his first collegiate goal following a corner kick by Diamantoni. No more than 30 seconds later, following a cross from John L. Kramer '14, Bingham, once again, took advantage of an open net and scored his 13th goal of the season and MIT's fifth of the game. With less than 20 minutes left on the clock, after a cross from Jason E. Adler '15, fellow sophomore Bokil T. Lopez-Pineda snuck another ball past Kostka. Less than three minutes later, MIT was back at it when a ball shot by Andrew C. Fijan '14 forced Kostka out of the net, leaving the cage wide open for Alexander Dago '15 to boot the ball in. With 10 minutes remaining in the game, Cameron McCord '13 scored his first goal of the season and the final one of the game with an assist by Adler.

All three MIT goalkeepers appeared in net during the game; Colin P. Hong '15 played the remaining 11 minutes and had to make two saves, while neither Cannon nor Amereno had to make any saves. Elms also used all three of its goalkeepers and they totaled 17 saves throughout the entire game. The Engineers outshot the Blazers,

MIT will close its regular season in Worcester, Mass. when it faces Clark University on Saturday, Oct. 27.

Following opportunity is open to eligible Sophomore and/or Junior students in the School of Engineering and the School of Science

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School of Engineering contact: Maria Marangiello, x3-8012, <u>mariam@mit.edu</u> School of Science contact: Lisa Rooks, x3-5951, <u>lrooks@mit.edu</u>

UPCOMING HOME EVENTS

Saturday, October 27

Swimming and Diving vs. Charlie Batterman Relays Field Hockey vs. Smith College

Men's Water Polo vs. Connecticut College

11:00 a.m., Zesiger Center Pool 1:00 p.m., Jack Barry Field 5:00 p.m., Zesiger Center Pool

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