How safe is the food? Food inspections at and near MIT

By Joanna Kao

You’re probably heard of the horror stories of finding beard 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 campus?

In the 2012 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 at least once a month prior to the survey. And with the dining plans at MIT undergraduate residence halls regularly getting prepared food from industrial kitchens in their dorms.

Fortunately, the city of Cambridge — MIT included — follows the MassachusettsMerged Food Code, Food inspections, Page 8

EdX platform integrates into classes

EdX, Concourse 8.01 complete assignments via edX interface

By Leon Lin

Nearly six months ago, Harvard and MIT announced the launch of edX, a non-profit online platform that would revolutionize education for students around the world. But the universities associated with the nonprofit venture — which now include the University of California, Berkeley and the University of Texas system schools — are having trouble in improving their residential facilities. This fall, several courses at MIT students 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.

One-fifth of ‘16s receive fifth week flags

Freshmen in danger of failing classes warned by administration

By Emily Kellison-Linn

223 freshmen, about one-fifth of the freshman class, received fifth-week flags last week. According to Julie B. Norman, associate dean and director of the office of undergraduate advising and academic programming (UAAP), 37 of the 203 freshmen who received flags last week had the lowest flag rate of 5.4 percent. Of the four most-flagged classes, 8.01L (Physics I) had the highest percentage (21 percent).

According to John H. Johnson ’16, who received a flag in 7.012, “I pretty much saw it coming, though I was shocked when she received a flag in 7.012. I pretty much saw it coming, though she thought 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

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 crisis. ARTS, p. 11

NEW EDX PARTNERSHIP!

MIT’s online learning platform continues to grow. NEWS, p. 12
Iran said to complete underground nuclear enrichment plant soon

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 Republican

have collected about $932.3 million, including some money for the party's congressional efforts, setting up 2012 to be the most ex-

pensive presidential campaign in history. But the sources of that money, raised over the course of a deeply polarizing campaign, are
echo sharp divisions between the two men and their parties over issues like abortion rights, the role of gov-

ernment 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 financial regulations, than in
any presidential candidate in memory. Employees of financial firms who have pledged to support Obama's campaign, four years ago, Obama has also turned to the very smallest donors, building an army of mil-
ings 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 dona-
tions of less than $200, including from many people who have repeat-
edly sent in small checks over the course of the campaign. Just 13 per-
cent of his checks were for $2,500, the maximum that donors are al-

lowed to contribute for either the primary or general election.

Romney, by contrast, has cult-
ituated business leaders and benefited from a Republican donor establish-
ment 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 cam-

paign were for the maximum $2,500 contribution.

Iran also included some from Eu-

eran companies who have

opposed taking military action to slow the Iranian program, arguing that sanctions — with a mix of co-

vert action — are far preferable. The report comes as 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 during Obama's tenure. But he has been less critical in the Monday evening debate.

To asked about the intelligence reports, Tommy Vietor, the spokes-
man for the National Security Council, said, "While we can't comment on a report that has yet to be released, we remain con-
dered about Iran's defiance of its international obligations."

The Washington International Center had collected about $952.2
millions more to the super PACs that back him. Romney, by contrast, has cult-
ivated business leaders and benefited from a Republican donor establish-
ment that is eager to defeat Obama, raising an unprecedented amount of money from wealthy donors who give 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 cam-

paign were for the maximum $2,500 contribution.

Iran also included some from Eu-

eran companies who have

opposed taking military action to slow the Iranian program, arguing that sanctions — with a mix of co-

vert action — are far preferable. The report comes as 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 during Obama's tenure. But he has been less critical in the Monday evening debate.

To asked about the intelligence reports, Tommy Vietor, the spokes-
man for the National Security Council, said, "While we can't comment on a report that has yet to be released, we remain con-
dered about Iran's defiance of its international obligations."

Weather

The calm before the storm...

By Roman Kowch

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 remain today and tomorrow.

Saturday morning will be sunny and cloudless, followed by lighter winds this morning, but nearby high pressure and dry air should erase those changes almost immediately. Highs will remain in the mid 60°F (17°C), they said.

Temperatures on Sunday will go to 70°F (21°C). The weather is likely to remain dry and stable through the middle of next week.

Stay tuned to weather forecasts dur-
ing the weekend. Keep your family in the loop. We'll be back during the next forecast update.

By David E. Sanger

The New York Times

WASHINGTON — Intelligence officials from several countries say Iran in recent weeks has virtually completed an underground nuclear en-

richment plant, racing ahead despite international pressure and heavy economic sanctions in what experts say may be an effort to give the Iranian regime 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 moun-
tain 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, im-
pending increasingly tougher sanc-
tions 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 settle-
ment was "waning 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 agree-
ment to hold direct talks after the U.S. president met with Obama. Romney denied the report but said in Mon-
day's debate that he was open to such talks.

Iran's progress at Fordo was dis-
closed by officials familiar with the findings of inspectors from the In-
ternational Atomic Energy Agency, which has been to the site recently as part of their regular visits. The

WEATHER

Extended Forecast

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

Tonight: Partly cloudy. Low 52°F (11°C).


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

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

Situation for Noon Eastern Time, Friday, October 26, 2012
Bad luck and missteps make GOP climb steeper

By Jonathan Weisman

WASHINGTON — The Indiana Senate race is one of the most competitive, and the Michigan Senate race is a tossup. But the mood among Republicans is not one of confidence, even as they set up for a final push before Election Day.

Republicans saw their chances slip away earlier this month when the results of a New York Times/CBS News poll showed that the 2012 race was more competitive than it had been in 2008. But the party’s hopes of retaking the Senate have dimmed even further since then, as the race for control of the chamber has shifted to states like Florida, Ohio, and Pennsylvania.

"We need to win five seats," said Republican National Committee Chairman Reince Priebus on Friday. "That’s a scary number."

The GOP will need to win at least five seats to capture the Senate, which is now held by the Democratic Party. The party’s chances of winning the Senate are slim, and many analysts believe that the race is already decided.

"It’s an uphill battle at this point," said one Republican operative.

But the party is not giving up hope. "We’re not going to give up until the polls close," said a Republican strategist.

The party is taking a number of steps to try to boost its chances of winning the Senate. These include running a robust campaign in key battleground states, including Ohio and Pennsylvania, and focusing on issues that are important to voters in those states.

"We’re working hard to get our message out there," said a GOP official.

But the party’s chances of winning the Senate are still slim. "We’re not going to put our eggs in one basket," said a Republican strategist.

But the party is not giving up hope. "We’re not going to give up until the polls close," said a Republican strategist.

The party is taking a number of steps to try to boost its chances of winning the Senate. These include running a robust campaign in key battleground states, including Ohio and Pennsylvania, and focusing on issues that are important to voters in those states.

"We’re working hard to get our message out there," said a GOP official.

But the party’s chances of winning the Senate are still slim. "We’re not going to put our eggs in one basket," said a Republican strategist.

Early warnings that Hurricane Sandy could be a perfect storm

Hurricane Sandy, which Thursday was barreling through the Bahamas as a Category 3 storm, may be taking aim at the north- eastern United States. But the forecasters are not sure.

"It’s time for a big change, and I think we’re ready," said Obama.

Obama has been on an ambitious agenda of reform, saying its time for a big change. But the mood has been bad for a long time, and the party has been deprived two-day, eight-state jaunt earlier this month to try to drum up support before the election.

"We need to do something different," said one Republican operative.

But the party is not giving up hope. "We’re not going to give up until the polls close," said a Republican strategist.

The party is taking a number of steps to try to boost its chances of winning the Senate. These include running a robust campaign in key battleground states, including Ohio and Pennsylvania, and focusing on issues that are important to voters in those states.

"We’re working hard to get our message out there," said a GOP official.

But the party’s chances of winning the Senate are still slim. "We’re not going to put our eggs in one basket," said a Republican strategist.
Uppercut by Steven Sullivan

Well, that's all the questions I have for you. Do you have any questions after me?

You're given an array of integers. Your task is to find the duplicate number.

...and when he pounded his head so the lights!

SMBC

AND WHAT ARE YOU THIS HALLOWEEN, LITTLE GIRL?

I'M A QUANTUM MECHANIC!

HOW'D IT GO?

GREAT. BUT THEY'RE GONNA HATE THE SUPERPOSITION OF TRICK AND TREAT.
Sudoku
Solution, page 12

Out of Hands by Fred Piscop
Solution, page 12

Techdoku I
Solution, page 12

Techdoku II
Solution, page 12

We get you the tickets.
You get us the review.

ARTS at The Tech
established 1878
events • movies • theater • concerts
music • books • restaurants • interviews
join@the-tech.mit.edu
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 type-written piece 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 Skip, a seller. "People like to haggle," said Tony, 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 he 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.

As its name implies, Swapfest is a monthly event where buyers and sellers can trade their goods of merchants who ran the gamut from independent flea market sellers to representatives of larger electronics stores. "We get all things nerdly," said Skip, a seller. "People like to haggle," said Tony, 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 he 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.

With the event moving smoothly and without any incidents at the event. Indeed, Swapfest runs on the third Sunday of every 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.

"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 he 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.

Two men discuss how to fix a motorized drive axle at Swapfest on September 16.

"...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

Shankar Tucker Live 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

Students for Bhopal at MIT, The Association for India’s Development MIT and Boston chapters in collaboration with IndianRaga present:

Indian Raga

Proceeds support grassroots projects in India and the fight for justice in Bhopal. For more details contact: icjb.us.rieb@gmail.com.
Cambridge food inspections: the facts on food
Out of 33 food providers, Simmons Hall receives highest number of violations — 19

How a food inspection works
Food inspections are routine and unannounced. Food inspectors try to hit each food preparation establishment at least once a year. Unlike cities like New York City, which requires each food joint to display a food safety rating in front of their stores, Cambridge food inspections are not interactive.

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

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

Food inspections

INTERACTIVE:
8 YEARS OF CAMBRIDGE FOOD INSPECTIONS

Interactive by Sarah Cao, Stephen Suen, and Joanna Kao

Since February 2004, the City of Cambridge has made available on its website a regularly-updated database of restaurant inspection reports. We have scraped the data that was available online, including each restaurant’s name, location, and history of violations. We then find these restaurants into four basic categories: on-premise options (including dining halls), shops, food trucks, and local tracks. These restaurants were plotted on a map of Cambridge along with interviews that show the number of violations they accrued over time. Finally, we scraped data from local search and review website Yelp to provide more contextual information about these businesses. We will continue to renew this data as it is updated in the future.

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
9 McCormick Hall
5 Next House
4 MacGregor Convenience
4 Baker House

Average number of violations for all restaurants over 8 years
3.5

Number of establishments without any violations since last inspection
4

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”

INTERACTIVE

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 that 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
By Jenny Xie  

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 behind 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.

The Tech: From conception to final product, can you estimate how many hours the team spent on the project?  
BH: 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 re-finishing 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.

The Tech: How is Framework different from the Kerf Pavilion, and how is it unlike any other space on campus?  
BW: 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 explores smaller pieces that attach to each other with a structural joint and aggregates them to create a larger whole. We feel that these projects begin to talk about the idea of the “semi-permanent” campus — 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.

The Tech: What does Framework mean for the future of design and construction at MIT?  
BH: Both Framework and Kerf really show that the divide between design and manufacturing is quickly shrinking.

—Robert White  

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 capacity in a small domestic scene, an older brother abuses his family in protest over his own medical decline; a cheater faces the cold, splintering reality that he’s hooked up too many times and the love of his life is gone for good.

Be sure to read that.

Reading Diaz 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 transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz’s feel like listening did be before you were told there was a right and a wrong way to do it.

The book unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz 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 unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz’s feel like listening did be before you were told there was a right and a wrong way to do it.

The book unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz 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 unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz’s feel like listening did be before you were told there was a right and a wrong way to do it.

The book unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz 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 unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz’s feel like listening did be before you were told there was a right and a wrong way to do it.

The book unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.

Diaz 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 unravels into loosely-linked episodes concerning one central character, Yunior, a hard-headed Dominican transplanted to America, where he encounters a collection of short stories or a fragmented novel that needs some gazing. Diaz is playing with convention here and it hogs 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.
Remembering the days the abyss gazed back

New volumes explore different angles of the Cuban missile crisis

By Roberto Perez-Franco

The American President on Oct. 26 warned the famous telex that the Soviet Premier sent to Moscow’s duplicity, almost resulted in Washington’s self-deception as much as to assassinate Castro through Operation Anadyr, Operation Monosem, and a workshop on an opera-in-progress. The book also blames the willingness of Moscow to Kennedy’s 1961 declaration that the United States enjoyed a decisive nuclear superiority.

The book also blames the willingness of Cuba to become a nuclear outpost for the Soviet Union on the verge of unleashing its missiles, by Priscilla Roberts (ABC-CLIO, 2012). If you don’t know how Operation Anadyr, Operation Mongose, 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 tales 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.”

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 Cuba 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 Mongose. 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- 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: JFK 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. In one of my favorite films of all time, Renton 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.
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 charge.

“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 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 it as well.

—Stan Gill

SPERM DONORS

Visit SPERMBANK.com for more information.

SOLUTIONS

Solution to Techdoku I

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 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

Solution to Crossword

ACB O O N X W A R T S
T O N E R A L O N E
A R A M I N E
L A I N E
T R A I N S
E L T A N A L O G M A T I C
E S P I E
C A R D L A Y E R S
E N A G R O U L
I N G E N E R E N T
P L A T E S
R A T T L E S
C A T T L E E R A N C H E S
A M O L S
A N I S E
C A T T L E S
T O A S T
F R E E N E D

Solution to Sudoku

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

SOLUTION TO TECHDOKU II

SOLUTION TO CROSSWORD

SOLUTION TO SUDOKU

APPLY ONLINE:

SPERMBANK.com — convenient Cambridge location

Solution to Techdoku I

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

ACB O O N X W A R T S
T O N E R A L O N E
A R A M I N E
L A I N E
T R A I N S
E L T A N A L O G M A T I C
E S P I E
C A R D L A Y E R S
E N A G R O U L
I N G E N E R E N T
P L A T E S
R A T T L E S
C A T T L E E R A N C H E S
A M O L S
A N I S E
C A T T L E S
T O A S T
F R E E N E D

Solution to Sudoku

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

Experience an intensive six-day leadership development and community-building program over IAP this year. Join MIT faculty and administrators and 70 of your fellow undergraduates for this incredible experience!

Apply to LeaderShape!

web.mit.edu/leadershape

Application deadline is Friday, November 9, 2012 LeaderShape will be held January 18-23, 2013

*Information Session To Be Held in Building 4-419 on November 1st, 2012 7:30pm – 8:30pm*

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 problems, and get a decent score on the last one,” Spence said. He met with his professor to discuss exam strategy, and believes things are looking up.

Be a PENguin
write for us
e-mail join@tech.mit.edu

INTERACTIVE: Check out our graphic on fifth week flags!

2nd Annual ORIGAMIT CONVENTION

MIT Student Center Saturday, October 27, 2012

origamit.script.scripts.mit.edu/conv12.php

This Origami Classes * See an Origami Exhibition * Purchase Origami Paper & Books * Ray Tollner * Have Fun * Field Paper*
Classes and workshops available for beginners and veterans alike.

MIT-China Educational Technology Initiative

Teach in CHINA, Hong Kong, Taiwan this summer!
All expenses paid! No language skills needed to apply!
Apply Online Now!! @
http://web.mit.edu/mit-ceti/www/

APPLICATION DEADLINE: October 31

MIT-CETI: ceti@mit.edu

INTERACTIVE: Check out our graphic on fifth week flags!

Flags, from Page 1

Frosh fifth week flags

"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 problems, and get a decent score on the last one," Spence said. He met with his professor to discuss exam strategy, and believes things are looking up.

"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 it as well.

—Stan Gill

SPERM DONORS

Earn up to $1200 per month

Invest minimal time

Make a real difference in the lives of families

APPLY ONLINE:

SPERMBANK.com

—convenient Cambridge location
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 in-
volving problems. “The teacher doesn’t have to spend time in class on stuff like, ‘What’s the definition of momen-
tum’?” said Haley M. Hurovitz ’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 per-
cent,” Lecturer Saif Rayyan wrote in an email to The Tech. Rayyan, lecturer for 8.01, along with Ana-
aia Barrantes, helped develop the online content. Rayyan maintains keen interest in a data-driven ap-
proach 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 assignment before class, figure out what concepts were harder for the stu-
dents, and adjust the presentation during class.”

Reading questions (branded as “concept questions”) are also used in 1.098 Introduction to Solid-
State Chemistry, albeit in a limited way. Students are only required to answer one multiple-choice ques-
tion 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. Accord-
ing 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 system 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 uploads one submission, a dif-
ferent guest 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.

“It's a way 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 Hurovitz, the setup in which students learn concepts and answer reading questions outside of class has sometimes proved to be a time-
saver. “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 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 feed-
back. However, students still submit write-ups of their solutions. “Basi-
ically I've gotten all perfect p-set scores [because of edX],” Hurovitz said. “I’ve often been like, ‘Oh, I had to have missed that question if I didn’t check it on edX.’”

Hurovitz also said she appreci-
ated the organization of the content on edX. “Since all the notes, exam-
ple, and problems for a topic are in one place, studying for tests is much easier, according to Hurovitz.”

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 7.682. But he admits, “When [edX is] not available, I wish I could do it.”

Evaluating edX

Last semester, 20 students in 6.002 Circuits and Electronics vol-
exed 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 spent between six and ten hours on the course each week, mostly online, watching instruc-
tional 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 ma-
terials. 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 Tech-
ology Review. Agarwal said that students liked the flexibility the online-
line format afforded. Students could work on the class when and where they wanted. 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 stu-
dents’ sleep schedules than tradi-
tional 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 stu-
dents who are much more comfort-
ble with digital technology.”

Agarwal declined to whether the 20 students testing out the blend-
ed model performed better than the rest of the class. “The group was self-
selected,” he said. “It’s difficult to do an apples-to-apples comparison.”

The experiment is not being re-
peted in this semester’s 6.002 course.

This time around it’s the traditional lecture 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 “ex-
ploratory category.” MIT is currently testing how well laboratory experi-
ments can be simulated online in the on-campus 6.004 Computation Structures class. There are clear cases of strength and weakness. For Jansen, the material was always there when something in the in-person experi-
ence 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 phys-
ics problems and getting immediate feedback online years ago on Mas-
ter Physics. Lecture videos have been on OpenCourseWare for nearly a decade. edX aspires to fit the flaws of older systems and introduce new features. 8.01 Professor Deepthi Chakrabarty said that physics stu-
dents 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 hap-
pens outside class — whenever stu-
dents read or watch content, solve p-sets, answer questions, or work together collaboratively,” edX will en-
able 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 will fit edX with edX 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, ac-

cording to Agarwal. “Different pro-
fessors are experimenting with dif-
ferent approaches on campus.”

“I think it’s too early to say what the optimal way to do this is,” Chakra-

barty said.
Distinguish Yourself
as a Burchard Scholar

Expand your intellectual and social horizons. Meet with other Burchards and MIT faculty each month for a delicious dinner and seminar on topics of the day. Sophomores and Juniors who have shown excellence in some aspect of the humanities, arts, or social sciences are encouraged to apply. Burchards can be majors in any department; no preference is given to HASS majors.

Apply at: shass.mit.edu/burchard

Sophomores + Juniors—Apply by December 3, 2012

EMPHASIZING COMMUNITY SUPPORT AT THE INSTITUTE

MIT Together campaign launched to showcase resources available around MIT

“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 a 5.0, and is just sort of waiting a couple decades for their Nobel Prize.”

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 the launch of this site, she can see herself visiting MIT Together as well. “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 J. Murray G. “There actually wasn’t a whole lot of actual content on the site itself, but it was links to resources, essentially.”

“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 added.

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.

---

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

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.

“arists who are over-whelmed or isolated tend to think they’re the only ones who have

---

great ideas change the world

SCHOOL OF HUMANITIES, ARTS, & SOCIAL SCIENCES
National Football League predictions: week eight

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

By J. Austin Osborne

Miami Dolphins @ New York Jets
Sunday, Oct. 28 1 p.m.

In an AFC East Showdown, the Dol-
phins travel to New York to take on the Jets. Miami is coming off a bye week after win-
ing two straight games against Cincinnati and St. Louis. Week after week, they continue to dominate against the run, allowing just over 72 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 players 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 ap-
ppeared that the Chargers had finally gotten over their well-docu-
mented 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 team.

Prediction: 27-10 Chargers

Indianapolis Colts @ Tennessee Titans
Sunday, Oct. 28 2 p.m.

Andreız 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 talk-
ning playoffs in Indianapolis. The Titans recently won a close one with the Buffalo Bills, mostly due to last second field goal from Chris Johnson who rushed for almost 200 yards and had his best game of the season. Luck has already performed to expect this way every week, however. He has been incredibly inconsistent throughout his en-
tire career, mostly because he runs in the style. If Johnson cannot break any long runs, the Titans will need to change their stra-
gery of the game. The Colts will need to con-
tain him if they want to win this game.

Prediction: 38-13 Packers

Atlanta Falcons @ Philadelphia Eagles
Sunday, Oct. 28 2 p.m.

A year ago this time, the Eagles were leading 14-0 over the Falcons with just under 10 minutes to play, but the Falcons would score 17 unanswered points to come out on top 31-17. Now, this game is in Philadelphia and the Eagles have never lost in the game after their bye in his entire tenure. The key to this game would be to contain Michael Vick and make sure the Eagles can run the ball. If Philadelphia can rush effectively, they should be able to take advantage of Atlant-
a’s weak run defense. The Falcons haven’t looked particularly good these past three weeks, especially due to their defense. They have the 31st ranked pass defense in the league. If they can stop Philadelphia, they could see another win. The Eagles are young and talented on the defensive line. Look for LeTean McCoy to have a big game and for the Ea-
gles to pull out a thriller.

Prediction: 27-21 Eagles

Washington Redskins @ Pittsburgh Steelers
Sunday, Oct. 28 2 p.m.

Washington lost a heartbreaking game last week to the Giants as they allowed Eli Manning to formulate a late game come-
back. Punishing the ball in key situations did the Redskins in last week. Other-
wise, they played their best game of the year. Rookie问候 Ahmad Morris continues to impress on the ground and Robert Griffin III continues his steady 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 Ro-
hatshuser should be able to take advan-
tage 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 2 p.m.

Detroit hasn’t looked right the entire season. Matt Stafford has thrown more inter-
ceptions 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. They are specially in the incredibly competitive NFC North. They will have more success 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 im-
pressive wins on their schedule. The big-
gest 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 on in Mar-
shawn Lynch and force Russell Wilson to beat them through the air, which they should be capable of doing.

Prediction: 17-10 Lions

California Panthers @ Chicago Bears
Sunday, Oct. 28 2 p.m.

Carolina is in a tailspin. After three straight close losses, they travel to Chicago to play the scrorching-hot Bears. Chicago is on a four game winning streak, likely due to their incredibly tough running game. They average over 130 yards per game, while only allowing 71 yards against them. Cam Newton has managed the game, and this team is still finding 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: 27-14 Bears

Oakland Raiders @ Kansas City Chiefs
Sunday, Oct. 28 4:05 p.m.

Oakland would love to win an 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 de-
cent 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: 16-3 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 they are currently 2-4 in the NFC. The Cowboys will simply have to play a solid all-around de-
fensive 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 de-
cided by which quarterback leads their team on a key drive late in the game, and in those situations, Eli Manning has proven to be a little more clutch in the league.

Prediction: 30-27 Giants

New Orleans Saints @ Denver Broncos
Sunday, Oct. 28 8:20 p.m.

In a battle of marquee matchups, the Saints come in as one of the worst teams in the league in everything but passing. They have practi-
cally no running game to speak of, and their defense has been surprisingly awful this year. This should leave an opening for Denver to pick up another win this week, as Peyton Manning has leaned on bad pass defenses for his entire career. Even with a little extra velocity on his throws, he should have no problem picking apart this Saints de-
fense. 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 this game is how well Alex Smith can manage the game, and this one is no different. Arizona is known for their defense, they will have to avoid making mis-
takes. Alex Smith will need to do well to keep the ball in the hands of Frank Gore and Ball, who should be able to quickly neutralize the San Francisco defense, especially with John Skelton running the show. The 49ers should win in a defensive struggle.

Prediction: 20-9 49ers

Join The Tech! sports@tech.mit.edu

Have a burning desire to see these teams battle it out? In that case, check us out on Facebook at Sports@Tech!
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 Jade 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 from Austin L. Flood '16 and Nicholas A. Diamantoni '15, just five minutes later. Jonathan K. Tribes '14 scored his second goal of the season with 10 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 ousted the Blazers, 8-0.

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